

No.12040/09/2015-FTC/IR
Government of India
Ministry of Personnel, Public Grievances and Pensions
Department of Personnel and Training
[Training Division]

Block-4, Old JNU Campus
New Mehrauli Road, New Delhi-67
Dated: 10th March, 2015

TRAINING CIRCULAR

Sub: Group Training Course in “**Seismology, Earthquake Engineering and Tsunami Disaster Mitigation**” to be held in Japan from October 01, 2015 to September 15, 2016 under the Technical Cooperation Program of the Government of Japan.

The undersigned is directed to state that the Japan International Cooperation Agency (JICA) has invited applications for the above mentioned training program to be held in Japan from October 01, 2015 to September 15, 2016 under the Technical Cooperation Program of the Government of Japan.

2. The program aims to increase capacities of officials, engineers or researchers who are conducive to earthquake and tsunami disaster management. In this course, the participants will acquire Japan’s leading knowledge and technologies on seismology, earthquake engineering and tsunami disaster mitigation.
3. The program is designed for technical officials, engineers or researchers of governmental organizations, research institutes or universities having public interest in seismology, earthquake engineering or tsunami disaster mitigation.
4. The applying organizations are expected to select those technical officers who have university degrees in seismology, earthquake engineering, tsunami or equivalent with more than three (3) years working experience in the relevant field. The applicant should be well versed in advanced mathematics such as differentiation and integration, partial derivatives, differential equations, matrix, vector algebra, Fourier analysis etc; be proficient in basic computer skills; have competent command of spoken and written English; be between the ages of twenty five (25) to forty (40) years as of October 01, 2015; must be in good health (both physically and mentally); must not be part of any type of military service.
5. In addition to above, the following information in respect of the nominated officers may please be mentioned while furnishing the nomination:-
 - a) Whether attended any foreign training program in the past? If so, the duration/detail thereof;
 - b) Whether cleared from vigilance angle;
 - c) Age;
 - d) Whether working in North East State/J&K;
 - e) A brief in 50-100 words justifying the nomination.

6. The course covers the cost of a round-trip air ticket between international airport designated by JICA and Japan; travel insurance from the time of arrival in Japan to departure from 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 relating to pre-existing illness, pregnancy, or dental treatment are not included).

7. It is, therefore, requested that the nomination of suitable candidates may please be forwarded (in duplicate) in JICA's prescribed form to this Department duly authenticated by the HOD of the concerned department in accordance with the eligibility criteria.

8. The applications should reach this Department through the Administrative Ministry/State Government not later than **May 12, 2015**. Nominations received after the prescribed date will not be considered. The details of the program may be drawn from Ministry of Personnel, Public Grievances and Pensions' website (persmin.nic.in).



(P.K. Pattnaik)

Under Secretary to the Government of India

Tele: 011-26109049

To,

- a) The Secretary, Ministry of Home Affairs, North Block, New Delhi,
- b) The Chairman, National Disaster Management Authority, NDMA Bhawan, A-1, Sufdarjang Enclave, New Delhi-110029,
- c) The Director General, Directorate General of Defence Estates, Raksha Sampada Bhavan, Ulaanbaatar Marg, Delhi Cantt-110010,
- d) The Secretary, Ministry of Urban Development, Nirman Bhavan, New Delhi,
- e) The Secretary, Ministry of Earth Sciences, Prithvi Bhavan, Opposite India Habitat Centre, Lodhi Road, New Delhi – 110003,
- f) The Chief Secretaries to all the State Governments/Union Territories(with request to circulate the same amongst their related Departments/Organizations),
- g) NIC with request to post the circular along with the JICA's circular on this Department's website.



GROUP AND REGION-FOCUSED TRAINING

GENERAL INFORMATION ON

**SEISMOLOGY, EARTHQUAKE ENGINEERING,
AND**

TSUNAMI DISASTER MITIGATION

課題別研修「地震学・耐震工学・津波防災」

JFY 2015

NO. J15-04097 / ID. 1584482

Course Period in Japan: From October 1st, 2015 to September 15th, 2016

This information pertains to one of the Group and Region-Focused Training 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

Background

Earthquake and Tsunami disasters frequently take human lives, destroy houses and devastate social properties instantly and enormously. In general, natural disasters have difficulty of preparedness and precaution due to unpredictability as well as difficulty of immediate response to damage for sudden occurrence, and often cause heavy economic losses. Moreover earthquakes and tsunamis may accelerate human losses by fires, collapse of man-made structures and/or inundation of coastal areas.

Although the studies related in earthquakes and tsunamis are developed, people are seriously suffered by earthquakes and tsunamis in many countries. The 2011 off the Pacific coast Tohoku Earthquake still lives in the people.

In order to improve technologies in seismology, earthquake engineering, and tsunami disaster mitigation in developing countries located in earthquake/tsunami-prone areas, it is important to develop those technologies applicable to each country by its own efforts, taking conditions and systems of the respective countries into consideration as well as to transfer their latest knowledge and technology from developed countries.

To achieve this aim, it is indispensable to train experts as human resources to be highly capable of planning, instructing, and extending earthquake and tsunami disaster mitigation technologies, by combining advanced relevant technologies with administrative capability to utilize and disseminate those technologies.

This training program was divided into two courses, which were “Seismology, Earthquake Engineering and Disaster-Recovery Management Policy,” and “Tsunami Disaster Mitigation,” up to last year. Along with the general review of the training program in 2014, the unified course named Seismology, Earthquake Engineering and Tsunami Disaster Mitigation was created.

For what?

This program aims to increase capacities of officials, engineers or researchers who are conducive to earthquake and tsunami disaster management. In this course, participants will acquire Japan’s leading knowledge and technologies on seismology, earthquake engineering and tsunami disaster mitigation.

For whom?

This program is provided to those who are technical officials, engineers or researchers of governmental organizations, research institutes or universities having public interest in seismology, earthquake engineering or tsunami disaster mitigation, and who have university degrees in seismology, earthquake engineering, tsunami or equivalent and 3 years working experience.

How?

Participants shall have opportunities in Japan to acquire knowledge and techniques of earthquake or tsunami disaster mitigation through lectures, discussions, exercises, on-site-visit, etc.

Participants will also formulate a Master Thesis and an Action Plan describing what the participant will do after they go back to their home countries by putting the knowledge and ideas acquired and discussed in Japan into their on-going activities.

Remarks:

The curriculum of this course is approved as a master's degree program by the National Graduate Institute for Policy Studies (GRIPS) and BRI. Achieving required credits during the training, the participants will be awarded a Master's degree, "Master of Disaster Management" by GRIPS and BRI. Accordingly this training is very demanding. Applicants, with an excellent demonstrable educational and professional background and proficiency in English, should be highly motivated and confident enough to pursue and attain the requirements of the program so that they can obtain the degree.

II. Description

- 1. Title (J-No.):** Seismology, Earthquake Engineering, and Tsunami Disaster Mitigation (J15-04097)
- 2. Course Period in JAPAN**
October 1st, 2015 to September 15th, 2016
- 3. Target Regions or Countries**
People's Democratic Republic of Algeria, People's Republic of Bangladesh, Republic of Colombia, Republic of Ecuador, Arab Republic of Egypt, Republic of El Salvador, Republic of Guatemala, India, Republic of Indonesia, Kyrgyz Republic, Republic of the Union of Myanmar, Republic of Nicaragua, Independent State of Papua New Guinea, and Republic of the Philippines
- 4. Eligible / Target Organization**
This program is designed for technical officials, engineers or researchers of governmental organizations, research institutes or universities having public interest in seismology, earthquake engineering or tsunami disaster mitigation with university degrees in seismology, earthquake engineering, tsunami or equivalent and 3 years working experience.
- 5. Course Capacity (Upper limit of Participants)**
28 participants
- 6. Language to be used in this program:**
English

7. Course Objective:

This course aims to increase capacities of technical officials, engineers and researchers in the fields of seismology, earthquake engineering and tsunami disaster mitigation who are conducive to earthquake and tsunami disaster management and disaster recovery policy.

8. Overall Goal

The capacity of the earthquake /tsunami disaster mitigation in target countries is strengthened and the damage of earthquake /tsunami disaster is reduced

9. Outputs:

Participants are expected to achieve the following outputs;

- (1) To acquire basic concepts and theories on Seismology, Earthquake Engineering, or Tsunami which are essential to establish the Earthquake Disaster Mitigation Scheme.
- (2) To acquire basic concepts and theories on Seismic/Tsunami Hazard Estimation, Disaster Management and Disaster Recovery Policy in the fields of Seismology, Earthquake Engineering or Tsunami Disaster Mitigation which are essential to establish the Earthquake Disaster Mitigation Scheme.
- (3) To complete a Master thesis for solving problems in participant's country applying techniques and knowledge acquired in the course.

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 to September 2015) <i>Participants make required preparation for the Program in the respective countries.</i>	
	Activities
	Preparation of Inception Report Presentation Materials
	Basic mathematics for Seismology and Tsunami groups (homework)

(2) Phase in Japan (See ANNEX I for the detail) ; (October 1, 2015 to September 15, 2016) <i>Participants dispatched by the organizations attend the Program implemented in Japan.</i>	
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**It is mandatory for the applicants to select one of the topics of Individual Study listed on the ANNEX I and write it in the face page of Inception Report. For those who select 'others' it is mandatory to describe a concrete plan of Individual Study including the expected supervisor's name and affiliation.*

III. Conditions and Procedures for Application

1. Expectations from the Participating Organizations:

- (1) This program is designed primarily for organizations that intend to address specific issues or problems identified in their operations. Applying organizations are expected to use the Program for those specific purposes.
- (2) In this connection, applying organizations are expected to nominate the most qualified candidates to address the said issues or problems, carefully referring to the qualifications described in section III-2 below.
- (3) Applying organizations are also expected to be prepared to make use of knowledge acquired by the nominees for the said purpose.

2. Nominee Qualifications:

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

(1) Essential Qualifications:

- 1) be nominated by their governments in accordance with the procedures described in III-4.
- 2) be technical officials, engineers or researchers who have university degrees in seismology, earthquake engineering, tsunami or equivalent.
- 3) be an employee with more than 3 years working experience of governmental organizations, research institutes or universities having public interest in seismology, earthquake engineering or tsunami disaster mitigation.
- 4) be well versed in advanced mathematics such as differentiation and integration, partial derivatives, differential equations, matrix, vector algebra, Fourier analysis, etc.
- 5) be proficient in MS Word, Excel and Power Point.
- 6) be able to write research reports on the individual study in English.
- 7) have a competent command of spoken and written English ---with a minimum TOEFL score of Internet-Based Test (iBT) 79 (Paper-Based Test 550), IELTS 6.0. (This training program includes active participation in discussions and development of the action plan and Master thesis, thus requires high competence of English ability both in conversation and composition. Please attach an official certificate of English ability such as TOEFL or IETLS.)
- 8) be between the ages of twenty-five(25) and forty (40) years as of October 1, 2015 in principle.
- 9) must be in good health, both physically and mentally, to participate in the Program in Japan.
- 10) must not be serving any form of military service.

3. Required Documents for Application

(1) Application Form for the JICA Training and Dialogue Program

Please make contact with the respective country's JICA office for the Format of

Application Form.

Applicants should mention their choice (Seismology group, Earthquake Engineering group or Tsunami Disaster Mitigation group).

*Pregnancy

Pregnant participants are strictly requested to attach the following documents in order to minimize the risk for their health.

1. letter of the participant's consent to bear economic and physical risks
2. letter of consent from the participant's supervisor
3. doctor's letter with permission of her training participation.

Please ask JICA Staff for the details.

(2) **Supporting documents for GRIPS*/BRI** Master's Program (See ANNEX II)**

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's Program as written in ANNEX II.

- Application form for GRIPS/BRI Master's Program
- Certificate of health
- 1 clear photograph of the applicant's face
- 2 letters of recommendation
- Certificate of employment
- Official transcripts or degree certificates
- Evidence of English ability
- Statement of purpose

*GRIPS -National Graduate Institute for Policy Studies

**BRI -Building Research Institute

(3) **Inception Report (See ANNEX III)**

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

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.

4. Procedures for Application and Selection :

(1) Submission of the Application Documents:

Closing date for applications: **Please inquire to the JICA office (or the Embassy of Japan).**

(After receiving applications, the JICA office (or the Embassy of Japan) will send them to **the JICA Center in JAPAN by May 22nd, 2015**)

(2) Selection:

- 1) 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 JICA Tsukuba, which organizes this program.
- 2) JICA Tsukuba will carry out the screening jointly with BRI and select the qualified applicants out of those who fulfill the set qualifications described above in III.2.
- 3) Some of the applicants may be requested to take an oral interview by telephone or TV conference system in the respective country's JICA office.
 - The Cost of transportation to the respective country's JICA office for receiving an interview will be paid by Applicants.
- 4) A committee, which consists of GRIPS and BRI, will screen the above qualified applicants academically with the Application materials such as official transcripts.
- 5) The applicants who are accepted to participate in this program will be decided by a faculty council of GRIPS finally by **the end of July, 2015** (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 **no later than August 5th, 2015.** (*Acceptance Agreement from GRIPS will be sent soon after this notice of acceptance.)

5. Document(s) to be submitted by accepted candidates:

Inception Report Presentation Material

Before coming to Japan, an accepted participant is required to prepare an Inception Report Presentation Material based on the Inception Report. The Inception Report Presentation Material should be sent to JICA Tsukuba by **September 18th, 2015.**

Basic mathematics for Seismology

An accepted applicant will be given Basic mathematics for Seismology material by BRI. The result of Basic mathematics for Seismology material (homework) should be sent to JICA Tsukuba by **September 18th, 2015.**

6. Conditions for Attendance:

- (1) to strictly adhere to the program schedule.

- (2) not to change the program topics.
- (3) not to extend the period of stay in Japan.
- (4) not to be accompanied by family members during the program.
- (5) to return to home countries at the end of the program in accordance with the travel schedule designated by JICA.
- (6) to refrain from engaging in any political activities, or any form of employment for profit or gain.
- (7) to observe Japanese laws and ordinances. If there is any violation of said laws and ordinances, participants may be required to return part or all of the training expenditure depending on the severity of said violation.
- (8) to observe the rules and regulations of the accommodation and not to change the accommodation designated by JICA.

7. Certificate, Diploma and Master's Degree

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

IV. Administrative Arrangements

1. Organizer:

- (1) **Name:** JICA Tsukuba
- (2) **Contact:** (tbictpp@jica.go.jp)

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 a research department of BRI that trains participants from earthquake-prone developing countries on seismology, earthquake engineering and tsunami disaster mitigation. The course is implemented at relevant places including BRI and GRIPS.

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

- 1) URL: <http://www.grips.ac.jp/en/>
- 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

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:

Coverage is from time of arrival up to departure in Japan. Thus traveling time outside Japan will not be covered.

4. Accommodation in Japan:

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

JICA Tsukuba International Center (JICA Tsukuba)

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

TEL: +81-29-838-1111, FAX: +81-29-838-1776

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

Please refer to facility information of JICA Tsukuba at its URL:

<http://www.jica.go.jp/english/contact/domestic/information.pdf>

5. Expenses:

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

- (1) Allowances for accommodation, meals, 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 “III. ALLOWANCES” of the brochure for participants titled “KENSU-IN GUIDE BOOK,” which will be given before departure for Japan.

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. **The application fee, admission fee and tuition for the Master’s Degree Program will be provided by BRI.**

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 their own laptop/notebook computers to prepare the Action Plan, presentation slides and to communicate by e-mail.

2. Relevant Data for Seismology, Earthquake Engineering, and/or Tsunami Disasters in your country:

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

3. Introduction of participants' country:

The participants may have opportunities to join cultural exchange events or visit Japanese school. It is recommended to bring something to introduce their countries such as photographs, drawings, traditional goods, cloths, instruments or ornaments.

END

ANNEX-I: Detail of the Phase in Japan

ANNEX-II: Application Materials for GRIPS/BRI Master's Program

ANNEX-III: Instruction for the Preparation of Inception Report

ANNEX-IV: 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 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: +81-29-838-1776

ANNEX I: Detail of Phase in Japan

Outputs	Subjects/Agendas				Methodology
	Category	Seismology group (S group)	Earthquake Engineering group (E group)	Tsunami Disaster Mitigation group (T group)	
(1) To acquire basic concepts and theories (general)	Orientation	Overview of Earthquake, Tsunami and Disasters	Guidance ----- Introduction to Earthquake Engineering ----- Computer	Overview of Earthquake, Tsunami and Disasters	Lecture
	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 ----- -Seismicity and Statistics ----- -Crust and Upper Mantle Structure ----- -Crustal Deformation ----- Seminar of Basic Seismology	Structural Analysis ----- -Structural Analysis I,II &III) ----- -Finite Element Method I & II ----- -Dynamic Aseismic Design ----- -Limit Analysis ----- -Soil Mechanics ----- -Tsunami Load and Structural Design of Tsunami Shelter Structural Dynamics ----- -Structural Dynamics I & II ----- -Structural Response Analysis ----- -Soil Test and Survey II ----- -Effect of Surface Geology on Seismic Motion ----- -Dynamic Soil Structure Interaction Seminar of Structure Analysis	Information Technology related with Earthquake and Disasters ----- -Computer ----- -Theory of Seismic Waves ----- -Surface Waves ----- Earthquake Phenomenology ----- -Practice on Theory of Seismic Waves ----- -Local Earthquake Analysis ----- -Analysis of Teleseismic Records ----- -Seismicity and Statistics ----- -Crust and Upper Mantle Structure ----- -Crustal Deformation ----- Seminar of Basic Seismology	Lecture, Practice and Seminar
Advanced Subjects Related with Earthquake and Disasters		Earthquake Circumstance ----- -Earthquake Generation and Prediction I & II ----- -Mathematics for Seismology ----- - Focal Mechanism ----- - Moment Tensor Analysis ----- -Earthquake and Plate Tectonics ----- -Earthquake Source Process	Seismic Design ----- -RC Structures I,II,III &IV ----- -Steel Structures ----- -Masonry Structures I & II ----- -Structural Testing I, II & III ----- -PC Structures ----- -Foundation Engineering I, II & III	Earthquake Circumstance ----- -Earthquake Generation and Prediction I&II ----- -Mathematics for Seismology ----- - Focal Mechanism ----- - Moment Tensor Analysis ----- -Earthquake and Plate Tectonics ----- -Earthquake Source Process	Lecture, Practice and Seminar

		Characteristics of Earthquake Disasters -Data Processing -Study Tour of Earthquake Monitoring -Observation of Seismological Observatory -Effect of Surface Geology on Seismic Motion I & II -Seismic Tomography -Numerical Simulation of Seismic Wave Propagation Determination of Broadband Moment Magnitude Seminar of Applied Seismology	-Bridge Engineering I & II - Port & Harbor Structures and Tsunami Engineering -Dam Structures -Underground Structures - Urban Earthquake Disaster Mitigation System Seismic Evaluation and Retrofitting -Seismic Design Codes I & II -Earthquake Resistant Limit State Design I&II -Seismic Evaluation and Rehabilitation: buildings -Seismic Design and Retrofit of Bridges -Seismic Isolation	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 -Geology for Tsunami	
		Special Topics -Tsunami and Earthquake -Earthquake Geology -Observation Visits	-Design Earthquake Ground Motion and Seismic Force -Structural Reliability -Structural Response Control Seminar of Seismic Design, Seismic Evaluation and Retrofitting	Special Topics - Study Tour of Earthquake Monitoring	
(2) To acquire basic concepts and theories (detail)	Earthquake/ Tsunami Hazard and Risk Assessment	Earthquake Hazard Assessment -Soil Test and Survey -Strong Earthquake Motion Observation -Soil Dynamics -Strong Ground Motion Study I (Probabilistic Seismic Hazard Analysis) -Strong Ground Motion Study II (Strong Motion Seismology)	Tsunami Hazard Assessment -Tsunami Hazard Map -Tsunami Disaster Prevention Administration -Education of Tsunami Disaster Reduction and International Tsunami Warning -Tsunami Disaster Mitigation Policy and Risk Management in Japan -Introduction of Tsunami Disaster Mitigation	Lecture, Practice and Seminar	

		Earthquake Risk Assessment <i>-Practice for Earthquake Risk Assessment</i> <i>-Microtremor Observation I & II</i> <i>-Simulation of Seismic Ground Motion</i> <i>-Geophysical Prospecting</i> <i>-Seismic Micro-zonation</i>	<i>-Tsunami Hazard Assessment</i> <i>-Tsunami Damage Survey</i> <i>-Theory of Tsunami Propagation and Inundation Simulation</i> <i>-Scenario Earthquakes</i> <i>- Numerical Simulation of Tsunami Inundation and Its Application</i> <i>- Tsunami Evacuation Planning Simulation</i>	
		Seminar of Earthquake Disaster –Recovery Management	Tsunami Countermeasures <i>-Tsunami Protection Facility</i> <i>-Tsunami Damage and Reconstruction I&II</i> <i>-Tsunami Observation</i> <i>-Tsunami Early Warning System and Dissemination</i> <i>-Practice for Tsunami Countermeasure</i> <i>-Tsunami Force and Tsunami Resistant Structure</i> <i>-Tsunami Deposit Survey</i> <i>-Tsunami Load and Structural Design of Tsunami Shelter</i>	
(3) To understand new countermeasures	Disaster – Recovery Management Policy	Disaster Management Policies A: from Regional and Infrastructure Aspect		Lecture, Practice, Seminar and Presentation
		Disaster Management Policies B: from Urban and Community Aspect		
		<i>-Observation Visit for Dissemination Earthquake Disaster - Recovery Management</i>		
		<i>-Japanese ODA Policy and Development Assistance Related with Disaster-Recovery Management</i>		
		Seminar of Earthquake Disaster – Recovery Management Policy		
		<i>-Earthquake Observation</i>	<i>-Shaking Table Testing</i>	<i>-Earthquake Observation</i>
		<i>-System Identification in Vibration Analysis</i>		
	Case Studies	Practice for Earthquake Disaster – Recovery Management Policy I, II & III	Practice of Earthquake Disaster-Recovery Management Policy I&II	
		<i>-Colloquium</i>	<i>-Colloquium -Study Trips</i>	<i>-Colloquium</i>
		<i>-Study Trips</i>	<i>-Study Trips</i>	Practice for Tsunami Disaster Policy

				<i>-Observation of Seismological Observatory</i> <i>-Real Time Determination of Source Parameter</i> <i>-Determination of Broadband Moment Magnitude</i> <i>-Study Trips</i>	
		Practice for Seminar of Earthquake Disaster – Recovery Management		Practice for Tsunami Disaster Mitigation Policy	
(4) To complete a Master thesis	Individual Study	Menu for the topics of Individual Study			Practice, Seminar and Presentation
		<i>-Earthquake Hypocenter and Magnitude Determination.</i>	<i>-Seismic Performance Design Method</i>	<i>-Tsunami Simulation</i>	
		<i>-Moment Tensor Analyses.</i>	<i>-Seismic Evaluation and Retrofitting Techniques</i>	<i>-Tsunami Source</i>	
		<i>-Determination of Earthquake Source Parameters.</i>	<i>-Seismic Isolation and Response Control Techniques</i>	<i>-Tsunami Hazard Assessment (Tsunami Propagation and Inundation Simulation)</i>	
		<i>-Analysis of Earthquake Source Process</i>	<i>-Nonlinear Earthquake Response Analysis and Damage Evaluation</i>	<i>-Tsunami Database for Tsunami Early Warning System</i>	
		<i>-Seismicity Analyses and Fault Plane Determination by Hypocenter Relocation.</i>	<i>-System Identification and Health Monitoring</i>	<i>-Rapid Determination of Earthquake Parameters for Tsunami Early Warning System</i>	
		<i>-Crustal Structure Analyses Using Receiver Function.</i>	<i>-Effect of Soil Structure Interaction</i>	<i>-Real Time Usage of Tsunami Data for Tsunami Early Warning System</i>	
		<i>-Study on Seismotectonics Based on Earthquake Parameter Determination.</i>	<i>- Urban Planning for Earthquake Disaster Mitigation and Recovery</i>	<i>-Others</i>	
		<i>-Study on Earthquake Generation Process.</i>	<i>-Post-earthquake Damage Inspection Method</i>		
		<i>-Analysis of Strong Motion Generation Using Empirical Green's Function Technique.</i>	<i>-Others</i>		
		<i>-Site Effect Studies using Strong Ground Motion Records.</i>			
		<i>-Geophysical Prospecting for Sedimentary Strata Using Microtremors and Surface Waves.</i>			
		<i>-Others</i>			

ANNEX II : Application Materials for GRIPS/BRI Master's Program

1. Instructions

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

You will NOT be registered as an applicant until we have received all of your supporting documents.

Please note that any false or misleading statement or incomplete or inaccurate information you provide in your application may be the basis for denying you admission or, if you have been admitted, dismissal from GRIPS/BRI.

Ensure that all supporting documents meet our requirements (see Section 2).

All materials submitted by an applicant become the property of GRIPS/BRI and will not be returned.

2. Supporting Documents

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

All documents must be in English. Documents in languages other than English must be accompanied by an official translation. To be official, the translation must have been done by the organization issuing the document or by an accredited translator. We will not accept your own translations.

Faxed documents or digital copies sent by e-mail will not be accepted.

Apart from the items listed below, do not attach any additional documents.

Please check whether you have submitted all the necessary documents

Application form for GRIPS/BRI Master's Program (use designated form)

Certificate of health (use designated form)

1 clear photograph of your face (30 x 40 mm)
Please paste the photograph onto the application form.

2 letters of recommendation (use designated form)
Each of your letters must contain both of the two A4 pages provided. They must be submitted in sealed, unopened envelopes signed across the flap by each recommender.

Your letters of recommendation must be written by faculty members or job supervisors who are familiar with your academic and/or professional abilities. Ideally, one recommendation letter should come from a former professor or an academic supervisor.

Letters submitted that do not use our designated forms will not be accepted.

Certificate of employment (use designated form)
You are required to submit this if you are currently employed and will be given study leave from your employer upon getting admitted to GRIPS/BRI.

The certificate must state your present job title, job duties, and the name of your employer. Please include information on civil servant qualification (e.g., BCS, IAS, IRS, CSS) if applicable. The certificate of employment must bear the official stamp or seal and signature of the employer. If the official stamp or seal is in your local language and an English version is not available, you must ask your employer to write its English translation in the margin of the form.

Official transcripts and degree certificates (where applicable)
You must submit all your official transcripts and degree certificates from all undergraduate and graduate institutions attended in sealed, unopened envelopes signed or stamped across the flap by the school authorities.

Official transcripts are transcripts issued by the university and bear the seal or signature of the registrar. The transcript should contain the following information: the name of the degree awarded, the date of award, the names of all courses taken with grades received, and the grading scale. It is helpful to have the student's rank in class included in the information. You should request and receive your transcripts from your university. If you are currently attending a university, please submit the latest transcript.

If your transcript does not state the name of your degree, you must send us an official degree certificate OR a certified copy of your diploma. An official degree certificate is a certificate issued by the university and bears the official seal of the university. It should state the name of your degree and the date the degree was awarded. You should request and receive your official degree certificate OR a certified copy of your diploma from your university. If you are currently attending a university, please submit an authorized statement of expected graduation certifying the specific date and title of the expected degree upon completion of the program. Do not send your original diploma as documents will not be returned.

Evidence of English ability

One of the following test scores is required:

1. IELTS: 6.0 or higher
2. TOEFL (paper-based): 550 or higher
3. TOEFL iBT: 79 or higher

Please note that English test scores are valid for two years from the test date, and therefore tests must have been taken within two years of the date of admission.

Applicants who have completed an undergraduate or graduate degree at an institution located and accredited in the USA, the UK, Canada, Australia, New Zealand, and Ireland will be automatically exempted from submitting an English test score.

Statement of purpose (use designated form)

For details on required content, please see the explanation on the designated form.

3. After You Apply

Notify JICA of any changes

You must notify JICA by email as soon as possible of any changes in your application that may occur after you have completed your application. In case of any changes in your employment information (e.g., promotion, transfer), you must re-submit the Certificate of Employment that certifies your new status within 30 days.

INQUIRIES

Details regarding to the graduate program may be obtained at the following websites:

<http://www.grips.ac.jp/en/>

<http://iisee.kenken.go.jp>

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

Photograph

Please write your
name on the back of
the photo
(30 x 40 mm)

APPLICATION FORM **FOR GRIPS/BRI MASTER'S PROGRAM 2015**

(Type, print or write in block letters. Do not use "ALL CAPITAL LETTERS.")

PERSONAL DATA

1. Full name: _____
As written in your passport
2. Date of birth: _____ 3. Age (as of October 1st, 2015): _____
Month/Day/Year
4. Gender: Male Female 5. Marital status: Single Married
6. Citizenship: _____
As written in your passport
7. Present employer (Name of organization): _____
Does your organization belong to a central or regional authority? Central Regional Neither
8. Present position: _____
9. Work address: _____

Zip code (Postal code): _____ Country: _____
Tel: _____ - _____ Fax: _____ - _____
Country code - complete number Country code - complete number
10. Home address: _____

Zip code (Postal code): _____ Country: _____
Tel: _____ - _____ Fax: _____ - _____
Country code - complete number Country code - complete number
11. Present mailing address: Work Home Other, namely (Fill in the following fields.)
Address: _____

Zip code (Postal code): _____ Country: _____
Tel: _____ - _____ Fax: _____ - _____
Country code - complete number Country code - complete number
12. E-mail 1: _____
E-mail 2: _____

APPLICATION INFORMATION

13. List the names of the undergraduate and graduate (if applicable) institutions you attended or are currently attending. Enter the names of the degrees you received and the dates of enrollment at each institution. If your official transcript or certificate of graduation/completion states your GPA, honors, or class rank, enter this information as it is shown in your transcript.

Elementary education –secondary education (before higher education)	Dates (from–to) Month Year	Period of schooling
		Years months

Higher education	Institution and location	Dates (from–to) Month Year	Period of schooling	Degree	GPA (if available)	Honors/ class rank/ division (if available)
Undergraduate level (Bachelor’s)			years months			
			years months			
Graduate level (Master’s/ Doctoral)			years months			
			years months			
Total years of schooling (including elementary and secondary education)			years months			

14. English proficiency

TOEFL-iBT: _____
Score Month/Day/Year

TOEFL-PBT: _____
Score Month/Day/Year

IELTS: _____
Score Month/Day/Year

Other information: Undergraduate education instructed in English in the USA, the UK, Canada, Australia, New Zealand, or Ireland
 Graduate education instructed in English in the USA, the UK, Canada, Australia, New Zealand, or Ireland

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

1. _____
Name Position and affiliation

2. _____
Name Position and affiliation

16. List current and all previous employment **in reverse chronological order** starting with your most recent position.

Organization, type, & city	Dates (from-to) Month Year	Job title and description (maximum 20 words)

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 the applicant

Month/Day/Year

Please submit this application form along with other supporting documents specified on section 2.

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

STATEMENT OF PURPOSE 2015

Please state your purpose for participating in this program, and how your qualifications and experience match the requirements of the program you are applying for. Summarize your present duties and responsibilities (applicants, who are still studying but will have graduated by October, should describe their future career plans). Please describe any other factors that you would like to have the admissions committee consider in evaluating your application (e.g. personal background, leadership role) if you have. (300-500 words)

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

CERTIFICATE OF EMPLOYMENT 2015

EMPLOYER DETAILS

Name of organization: _____

Address: _____

_____ Zip Code (Postal code): _____

Tel: _____ - _____ Fax: _____ - _____ Email: _____
Country code - complete number Country code - complete number

EMPLOYEE DETAILS

This is to certify that _____
Full name of the applicant

has been employed by this organization from _____ to _____
Month/Day/Year Month/Day/Year

Present position, rank, responsibilities: _____

Civil servant qualification (e.g., BCS, IAS, IRS, CSS), if applicable: _____
This applies to applicants from Bangladesh, India and Pakistan.

LEAVE OF ABSENCE APPROVAL

I will approve **one-year** leave of absence for the above employee to participate in the Disaster Management Policy Program, if he/she is admitted to GRIPS and BRI.

Details authorized person completing the form:

Name: _____

Position/Title: _____

Signature: _____

Date: _____
Month/Day/Year



*Please put an official stamp or seal in this space.
*If the official stamp or seal is in your local language and an English version is not available, you must ask your employer to write its English translation in the margin of this form.

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

LETTER OF RECOMMENDATION 2015

TO THE APPLICANT: Please complete the section below and give this letter to two people who know you well. Have the recommender complete the form, put it in an envelope, seal the envelope, sign it across the flap, and return the letter to you. Include this letter with your application and all the other application materials when sending in your application.

Your name _____
As written in your passport

Recommender's name _____

TO THE RECOMMENDER: Please write a recommendation letter for the above applicant, sign it, enclose it in an envelope, seal the envelope, and sign across the flap. Return the sealed envelope to the applicant. This recommendation letter will remain confidential and will be used for application screening purposes only. You may attach additional sheets if the space provided is insufficient.

1. How long have you known the applicant? _____ years _____ months

2. In what capacity have you known the applicant?

3. How often have you interacted with the applicant?

Daily Weekly Monthly Rarely

4. In comparison with other students/staff whom you have known in the same field, how would you rate the applicant's overall **academic** ability?

- Outstanding (top 5%)
- Excellent (top 10%)
- Good (top 20%)
- Average (top 50%)
- Below average (lower 50%)
- Unable to comment

5. In comparison with other students/staff whom you have known in the same field, how would you rate the applicant's overall **professional** ability?

- Outstanding (top 5%)
- Excellent (top 10%)
- Good (top 20%)
- Average (top 50%)
- Below average (lower 50%)
- Unable to comment

6. Please evaluate the applicant in the areas below as *excellent, average, poor, or unable to comment*.

	<i>Excellent</i>	<i>Average</i>	<i>Poor</i>	<i>Unable to comment</i>
Academic performance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Intellectual potential	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Creativity & originality	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Motivation for graduate study	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7. **For university professors and instructors only**

Is the applicant's academic record indicative of the applicant's intellectual ability? If no, please explain.

8. 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 potential, and maturity, please discuss both strong and weak points. Specific examples are more useful than generalizations.

9. Discuss the applicant's character and personality. Please comment on his/her social skills, emotional stability, leadership skills and reliability.

10. Additional comments, if any.

11. 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 completing this form: _____

Position/title: _____

Name of organization: _____

Address: _____

Tel: _____ - _____ Fax: _____ - _____ Email: _____
Country code - complete number Country code - complete number

Signature: _____ Date: _____

Month/Day/Year

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

LETTER OF RECOMMENDATION 2015

TO THE APPLICANT: Please complete the section below and give this letter to two people who know you well. Have the recommender complete the form, put it in an envelope, seal the envelope, sign it across the flap, and return the letter to you. Include this letter with your application and all the other application materials when sending in your application.

Your name _____
As written in your passport

Recommender's name _____

TO THE RECOMMENDER: Please write a recommendation letter for the above applicant, sign it, enclose it in an envelope, seal the envelope, and sign across the flap. Return the sealed envelope to the applicant. This recommendation letter will remain confidential and will be used for application screening purposes only. You may attach additional sheets if the space provided is insufficient.

1. How long have you known the applicant? _____ years _____ months

2. In what capacity have you known the applicant?

3. How often have you interacted with the applicant?

Daily Weekly Monthly Rarely

4. In comparison with other students/staff whom you have known in the same field, how would you rate the applicant's overall **academic** ability?

- Outstanding (top 5%)
- Excellent (top 10%)
- Good (top 20%)
- Average (top 50%)
- Below average (lower 50%)
- Unable to comment

5. In comparison with other students/staff whom you have known in the same field, how would you rate the applicant's overall **professional** ability?

- Outstanding (top 5%)
- Excellent (top 10%)
- Good (top 20%)
- Average (top 50%)
- Below average (lower 50%)
- Unable to comment

6. Please evaluate the applicant in the areas below as *excellent, average, poor, or unable to comment*.

	<i>Excellent</i>	<i>Average</i>	<i>Poor</i>	<i>Unable to comment</i>
Academic performance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Intellectual potential	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Creativity & originality	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Motivation for graduate study	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7. **For university professors and instructors only**

Is the applicant's academic record indicative of the applicant's intellectual ability? If no, please explain.

8. 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 potential, and maturity, please discuss both strong and weak points. Specific examples are more useful than generalizations.

9. Discuss the applicant's character and personality. Please comment on his/her social skills, emotional stability, leadership skills and reliability.

10. Additional comments, if any.

11. 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 completing this form: _____

Position/title: _____

Name of organization: _____

Address: _____

Tel: _____ - _____ Fax: _____ - _____ Email: _____
Country code - complete number Country code - complete number

Signature: _____ Date _____

Month/Day/Year

健康診断書

CERTIFICATE OF HEALTH (to be completed by the examining physician)

日本語又は英語により明瞭に記載すること。

Please fill out (PRINT/TYPE) in Japanese or English. Do not leave any items blank.

氏名 Name: _____ 男 Male 生年月日 Date of Birth: _____ 年齢 Age: _____
 Family name, First name Middle name 女 Female

1. 身体検査 Physical Examinations

(1) 身長 Height _____ cm 体重 Weight _____ kg

(2) 血圧 Blood pressure _____ mm/Hg~ _____ mm/Hg 血液型 Blood Type

A B O	RH	+
		-

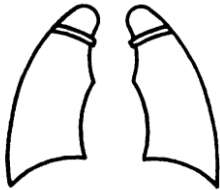
脈拍数 Pulse Rate _____/min 整 regular 不整 irregular

(3) 視力 Eyesight: (R) _____ (L) _____ (R) _____ (L) _____
 裸眼 without glasses 矯正 with glasses or contact lenses

(4) 聴力 Hearing: 正常 normal 低下 impaired 言語 speech: 正常 normal 異常 impaired

2. 申請者の胸部について、聴診とX線検査の結果を記入してください。X線検査の日付も記入すること (6ヶ月以上前の検査は無効。)

Please describe the results of physical and X-ray examinations of applicant's chest x-ray (X-ray taken more than 6 months prior to the certification is NOT valid).



肺 lung: 正常 normal 異常 impaired Date _____ Film No. _____
 心臓 Cardiomegaly: 正常 normal 異常 impaired
 心電図 Electrocardiograph: 正常 normal 異常 impaired
 Describe the condition of applicant's lung. _____

3. 現在治療中の病気 Disease & Treatment at Present

Yes (Disease: _____ Medicine: _____) No

4. 既往症 Past history: Please indicate with + or - and fill in the date of recovery.

Tuberculosis.....(. . .) Malaria.....(. . .) Measles.....(. . .)
 Epilepsy.....(. . .) Kidney disease.....(. . .) Heart diseases.....(. . .)
 Diabetes.....(. . .) Drug allergy.....(. . .) Psychosis.....(. . .)
 Functional disorder in extremities.....(. . .) Others.....(. . .)
 Rheumatic fever.....(. . .) Hepatitis (Type: A, B, C, D, E) (. . .)

5. ワクチン接種歴 Vaccination history

MMRV (Measles, Mumps, Rubella, Zoster)..... Time(s) () Mumps..... Time(s) () Hepatitis B..... Time(s) ()
 MMR (Measles, Mumps, Rubella)..... Time(s) () Chicken pox..... Time(s) () Meningitis..... Time(s) ()
 MR (Measles, Rubella)..... Time(s) () Polio..... Time(s) ()
 M (Measles)..... Time(s) () Diphtheria Pertussis Tetanus combined..... Time(s) ()

6. 検査 Laboratory tests

検尿 Urinalysis: glucose (), protein (), occult blood () • 検便 Feces: Parasite(egg of parasite)(+, -)
 赤沈 ESR: _____ mm/Hr, WBC count: _____ x10³/μl, Hemoglobin: _____ g/dl, ALT: _____ u/l

7. 診断医の印象を述べて下さい。 Please describe your impression.

8. 志願者の既往歴、診察・検査の結果から判断して、現在の健康の状況は十分に留学に耐えうるものと思われますか？

In view of the applicant's history and the above findings, is it your observation his/her health status is adequate to pursue studies in Japan? yes no

日付 Date: _____ 署名 Signature: _____
 医師氏名 Physician's Name in Print: _____
 検査施設名 Office/Institution: _____
 所在地 Address: _____

ANNEX III: 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 mandatory to record the Inception Report on the electronic medium such as CD or USB memory and bring it to Japan.**

IISEE will request the accepted applicants to revise Inception Report, if necessary, by adding the missing information etc. during preliminary phase. Deadline for the re-submission is set at the beginning of Sep. 2015. At the early stage of the course (Oct. 2015) these applicants will be requested to conduct a presentation about Inception Report. Therefore, it is necessary for these applicants who receive the notice of acceptance to start preparing Power Point file for presentation.

Inception Report should include all of the followings:

for Seismology(S) group

1. Geographic and geo-scientific information of your country with Maps (Tectonics, Active Faults, Seismicity, Macro-zoning study etc.).
2. Damaging Earthquakes or Tsunami (hypocenter, magnitude, isoseismals, surface faulting, damage, casualties), Catalogs, photographs etc.
3. Responsibilities of your organization in the national government or country.
4. Internal structure of your organization with the Organization Chart.
5. Equipments and personals of your organization (Seismic Network, Research Activities).
6. Analysis of Capacity (Strong and Weak points) of your organization and country (Disaster Mitigation Plan, Responsible organization, Hazard and Risk maps, Micro-zoning study).
7. Other organizations collaborating with yours for the seismological activities.
8. Your own responsibility in your organization.
9. Potential target of your study in the course with difficulties or obstacle for you to obtain your target with listing up the Strong and Weak points of you.
10. Your expectations for the course: What do you want to get in the course?

for Earthquake Engineering(E) group

1. Seismic Design Code for buildings of each country*
2. Characteristics of building damage due to earthquakes in your country.
3. Microzoning and earthquake disaster mitigation planning of each country.
4. Responsibilities of your organization in the national government or country.
5. Internal structure of your organization with the Organization Chart.
6. Your own responsibility in your organization.
7. Potential target of your study in the course with difficulties or obstacle for you to obtain your target with listing up the Strong and Weak points of you.
8. Your expectations for the course: What do you want to get in the course?

* Applicants who do not have any seismic design code in their countries are requested to present practical measures to secure the seismic safety of buildings.

for Tsunami Disaster Mitigation(T) group

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. A concrete plan of individual study. Please select the topics of individual study from "II. Description, 10.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,
- (3) **Choice of Group** (Select one of (S) , (E) or (T)).

Note: Ambiguous expression for the selection of group will cause a severe disadvantage in screening process.

Choice of Topic for Individual Study selected from the topics' list in "II. Description 10. Expected Module Output and Contents".

Note: Ambiguous expression or null answer will cause a severe disadvantage in screening process.

The first page of Inception Report should include:

- (4) **Title and Author's Name,**
- (5) **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.

- (6) **Introduction,**
- (7) **Affiliation of the Author.**

Note: 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:

- (8) **Topic mentioned above,**
- (9) **“Acknowledgement” and “Appendix”** after the topic if necessary.

(10) References,

Applicants are requested to submit attached documents including 3 or 4 items,

(11) Attached Document

- Information about the structure of Organization, for example, Organization Chart,
- Research activity of Organization related to Seismology, Earthquake Engineering, or Seismic Hazard/Risk Analysis,
- A list of governmental or private organizations related to Seismology or Earthquake Engineering in the country of Applicant, and,
- (If you select ‘others’ for the topic of Individual Study) a concrete plan of Individual Study. IISEE may inquire about the plan during the selection process.

(12) 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 shall be set possibly close to the positions where they are cited. Do not place 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/cm²).
- 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 "(Gibson 1995)" or "(Aki 1957; Okada 2003; 2006)" when cited at the end of phrase and "Gibson (1995)" or "Aki (1957) and Okada (2003; 2006)" when cited in phrase. 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.

Web site: F-Net, National Research Institute for Earth Science and Disaster Prevention (NEID)
<http://www.fnet.bosai.go.jp/>

(13) Sample for Inception Report

<u>Sample for the cover sheet</u>	<u>Sample for the first page</u>
<p style="text-align: center;">THE GROUP AND REGION-FOCUSED TRAINING COURSE IN SEISMOLOGY, EARTHQUAKE ENGINEERING, and TSUNAMI DISASTER MITIGATION 2015 – 2016 (COURSE ID: J15-04097) INCEPTION REPORT ON</p> <ol style="list-style-type: none"> 1. Name of Applicant 2. Name of Organization 3. Choice of Group (S), (E), or (T) <p><u>Choice of Topic for Individual Study</u></p>	<p style="text-align: center;">TITLE OF THE INCEPTION REPORT</p> <p style="text-align: center;">by AUTHOR*</p> <p>ABSTRACT</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>INTRODUCTION</p> <p>.....</p> <p>.....</p> <p>*The Author’s organization and occupation are to be written here.</p>

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ANNEX IV: Syllabus of the Training Program (Tentative)

S-Group (Seismology Group)

Category	Title	Subtitle	Contents	
Orientation	Orientation	Overview of Earthquake, Tsunami, and Disasters	Introductory lectures for Seismology and Tsunami Groups are given by staff members of IISEE. Basic concepts and general scope of seismology, earthquake phenomena, strong motion study, seismic hazard and risk, and tsunami, etc. are described.	
Basic Subjects Related with Earthquake and Disasters	Information Technology Related with Earthquake and Disasters	Computer	Practices on FORTRAN programming for scientific computing and on UNIX and GMT are 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	Explanation of principles underlying the interpretation of seismograms and determination of earthquake parameters. Practice of the analysis of seismograms and determination of earthquake parameters.	
		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.	
		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.	
	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.	
Focal Mechanism			Basic knowledge and practice for determination of focal mechanism by P-wave first motion method.	
Moment Tensor Analysis			Basic knowledge and practice for determination of focal mechanism by moment tensor inversion method.	

		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.
	Characteristics of Earthquake Disasters	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.
		Study Tour of Earthquake Monitoring	Study tours to institutes which have observational networks to monitor earthquakes are conducted.
		Observation of Seismological Observatory	Observation of Matsushiro Seismological Observatory, Japan Meteorological Agency.
		Determination of Broadband Moment Magnitude	Broadband moment magnitude (M_{wp}) 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.
		Effect of Surface Geology on Seismic Motion (1)	Effects of surface geology on seismic motion (ESG) are explained by showing results of ground motion case studies: amplification mechanisms of seismic waves, actual examples of site amplifications at sites with various site conditions, relations with earthquake damage.
		Effect of Surface Geology on Seismic Motion (2)	Subsurface explorations and strong motion synthetic techniques are explained in detail.
		Seismic Tomography	Theory and application of seismic tomography in local, regional, and global scales are explained. Practice on computer is also given.
		Numerical Simulation of Seismic Wave Propagation	Basic theory of seismic wave propagation and numerical methods for solving the elastic equations are explained. Seismic wave propagation is demonstrated by animation made by computer. Practice on the numerical simulation is given by using PC.
	Special Topics	Observation Visits	Observation tour to the institutes that have notable activities in the field of Earth Sciences.
		Tsunami and Earthquake	Basic concept and overview of tsunamis, including tsunami generation, propagation and tsunami warning and hazard reduction systems.
		Earthquake Geology	Geological subjects related to earthquake prediction, hazard assessment and countermeasures.
		Seminar of Applied Seismology	Discussion, presentation and practice for the topics of Applied Seismology
	Earthquake Hazard and Risk Assessment	Earthquake Hazard Assessment	Soil Test and Survey
Strong Earthquake Motion Observation			General procedures and system of a strong-motion earthquake observation are presented. Participants are introduced to the principle of strong-motion accelerometers (SMAC), data acquisition systems and data analysis procedures. Application of strong earthquake ground motion to seismic-resisting design is explained.
Soil Dynamics			Fundamental properties of soil such as non-linearity and constitutive law are reviewed. Dynamic behavior

			of soil deposits and analytical method are explained with evaluation of material constants. Liquefaction of sand deposits will be discussed and countermeasures against liquefaction are introduced.
		Strong Ground Motion Study I (Probabilistic Seismic Hazard Analysis)	Seismic Hazard Assessment is discussed, that is an estimation of the likelihood of an earthquake occurrence and its magnitude in and around the location of interest and of the severity of strong ground motions expected for a certain return period.
		Strong Ground Motion Study II (Strong Motion Seismology)	Strong-motion seismology is concerned with high frequency seismic waves from large earthquakes. Its ultimate goal is to predict strong ground motion from the basic understanding of fault mechanics and seismic wave propagation in the Earth.
Earthquake Risk Assessment	Practice for Earthquake Risk Assessment		Participation in international conferences, field trips and/or special lectures related to the earthquake risk assessment.
	Microtremor Observation(1)		Practice in the field and analysis are introduced for microtremor that is one of the useful information to evaluate the characteristics of earthquake ground motion.
	Simulation of Seismic Ground Motion		Method to estimate the strong ground motion at the engineering bedrock based on the empirical formulas is explained.
	Microtremor Observation(2)		Field practice of microtremor array observation
	Geophysical Prospecting		Principles of seismic refraction and reflection and their applications to the real field are discussed. Field Practice is given.
	Seismic Micro-zonation		This lecture gives an introduction to seismic micro-zoning technique by presenting the methods to estimate the distribution of the local and regional seismic hazard, explaining the preparation process of seismic scenarios, describing the applications of micro-zoning results, and discussing the future of micro-zoning. Various examples of actual studies are also presented.
	Seminar of Earthquake Disaster-Recovery Management		
Disaster-Recovery Management Policy	Disaster Management Policies A: from Regional and Infrastructure Aspect.		This lecture deals with the various aspects of disaster management policies from the viewpoint of nation-wide or wide range regional and Infrastructure development. The lecture consists of five parts: 1) bird-view lectures to look over the philosophies and principles of disaster management policies, 2) field-wise specialized lectures on practical measures against natural disasters, 3) two special lectures by Japan-representing outstanding lecturers, 4) an one day site-visiting in central Tokyo, and 5) presentations of student groups and overall discussions.
	Disaster Management Policies B: from Urban and Community Aspect		This lecture aims to provide a broad understanding of disaster risk management policies related to urban, housing and building aspects. It emphasizes application of appropriate and practical measures, reflecting social, economic and environmental conditions of each country.
	Disaster – Recovery Management and Development Assistance	Earthquake Observation	Basic theory of seismometers is explained. A method for calibration of conventional type of short period seismometer is presented with a practical training. Data acquisition and seismic telemetry systems are explained

		Observation Visit for Dissemination for Earthquake Disaster-Recovery Management	Observation visit to the institutes related to disaster-recovery management.
		Japanese ODA Policy and Development Assistance Related with Disaster-Recovery Management	Japanese ODA policy and implementation and the international trend of development assistance related with disaster-recovery management activities including poverty and gender issues are explained.
		Seminar of Earthquake Disaster-Recovery Management Policy	Methodology and practice for Project Management Cycle and its facilitation techniques. Additionally, joint & mutual observation visits are planned for JICA course participants of IISEE and ICHARM.
Case Studies	Practice for Earthquake Disaster-Recovery Management 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.
		Study trips	Study trip to north-eastern part of Japan (Tohoku) for a week and to western part of Japan (Kansai) for a week.
	Practice for Seminar of Earthquake Disaster-Recovery Management		Practice for the topics of Earthquake Disaster-Recovery Management
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, 10.Expected Module Output and Contents".

E- Group (Earthquake Engineering Group)

Category	Title	Subtitle	Contents
Orientation	Orientation	Guidance	An introduction to the training program for Earthquake Engineering Group will be given through Guidance and an introductory lecture.
		Introduction to Earthquake Engineering	Basic concepts and damage aspects by past earthquakes in Japan, as an introductory lecture for engineering course.
		Computer	The lecture introduces the computer environment at Building Research Institute (BRI) and International Institute of Seismology and Earthquake Engineering (IISEE). Usage and instructions of the provided laptop PC and the preinstalled software are also given in the lecture.
Basic Subjects Related with Earthquake and Disasters	Structural Analysis	Structural Analysis I, II & III	Fundamental concepts and principles which are utilized in the current structural analysis are introduced in the matrix algebra language. The displacement method and the force method with some extension to the finite element method and the elastic-plastic analysis of structures are discussed in some detail. Fundamental theories for non-linear analyses of building structures are introduced. Some member models and basic concepts of the direct stiffness method are discussed. These theories are also learned with some exercises using available software in IISEE.

		Finite Element Method I	1) Basic concepts of finite element method 2) Procedures for static linear analysis 3) Formulation of some elements' matrices 4) Example programs
		Finite Element Method II	1) Aims and Material Modeling 2) Cracks width analysis 3) Dynamic Analyses of RC Frames
		Dynamic Aseismic Design	Dynamic aseismic design procedure is introduced. Problems which frequently occur during the design of nuclear power plants and high-rise buildings are presented with some examples.
		Limit Analysis	Fundamentals of limit analysis (plastic analysis) as well as plastic design of structures are presented. Basic theorems in the limit analysis, safe and unsafe theorems, are introduced, and how to use them when computing the load carrying capacity of a framed structure is illustrated.
		Soil Mechanics	This lecture covers an introduction to fundamental soil mechanics which will give the basis for understanding dynamic behaviors of soil and foundation.
		Tsunami Load and Structural Design of Tsunami Shelter	(1) Observed Buildings Damage Pattern by Tsunami in Great East Japan Earthquake, (2) Introduction of Design Tsunami Loads in Past Guidelines and New Design Guideline, and (3) A Study on Design Flow and an Example of Tsunami Shelters
	Structural Dynamics	Structural Dynamics I & II	The objective of this subject is to study the behavior of structures by dynamic loadings. The lecture covers the SDOF (single-degree-of-freedom) system to the MDOF (multi-degree-of-freedom) linear elastic system. The deterministic procedure is discussed in detail with exercises. Furthermore the lecture introduces computer programming and provide some practices in programming of typical structural dynamic calculations. Participants compute dynamic response of a Single-Degree-Of-Freedom system and response spectra using Fortran 95. Fourier spectrum analysis is also introduced in the lecture.
		Structural Response Analysis	Inelastic earthquake response analyses using SDOF systems with various kind of hysteresis models and introduction of some applications using inelastic earthquake response analyses. Member models and structural idealization which are utilized in the current nonlinear structural analysis of buildings are outlined. Examples of dynamic and nonlinear analysis of reinforced concrete structures are presented. Methods for the theoretical interpretation on the results from the numerical analysis are introduced.
		Soil Test and Survey II	Some common methods on the field survey of soil deposits and laboratory tests are introduced.
		Effect of Surface Geology on Seismic Motion	Effects of surface geology on seismic motion (ESG) are explained by showing results of ground motion case studies: amplification mechanisms of seismic waves, actual examples of site amplifications at sites with various site conditions, relations with earthquake damage.

		Dynamic Soil Structure Interaction	In case a structure is founded on soft site, its structural behavior is strongly affected by underlying soil with each other. This phenomenon is called “Dynamic Soil-Structure-Interaction (SSI)”, and is recognized as being very important for the earthquake resistance design of structure. The physical meaning of the SSI and the influence of SSI on dynamic behaviors of structure are explained.
	Seminar of Structure Analysis		Discussion, presentation and practice for the topic of Structural Analysis
Advanced Subjects Related with Earthquake and Disasters	Seismic Design	RC Structures I	The structural performance from cracks to collapse about the RC members is predicted by using some equations. The prediction is made by the equations for designs.
		RC Structures II	Detailed structural design procedure of reinforced concrete members for flexure, shear and bond is lectured. Design practice of RC members according to the presented design procedure is conducted.
		RC Structures III	Design of Box-Shaped Wall building and evaluation of seismic performance of RC wall buildings are lectured.
		RC Structures IV	Outline of the seismic design procedure in accordance with the Japanese codes is presented. The related codes in U.S. and New Zealand and the design guidelines currently proposed in Japan are also introduced.
		Steel Structures I & II	Outline of the design procedure for steel building structures in Japan is explained.
		Masonry Structures I	The lecture covers an introduction to Performance of Masonry-based Structures and seismic design. The lecture covers an introduction to structural performance and seismic design of Confined Masonry structures, which has been studied as a research projects in BRI. It also includes housing construction conditions in the Third World Countries and their comparison with Japan's.
		Masonry Structures II	First, the concept and the method of seismic design of masonry structures will be reviewed for several representative design codes in the world. Also the “AIJ (Architectural Institute of Japan) Standard for the structural design of reinforced concrete hollow concrete block masonry structures” will be introduced as part of the Japanese codes. Second, the seismic behavior of masonry buildings will be explained from the aspects of “seismic evaluation of existing masonry buildings” and the “modeling of restoring force characteristics of masonry wall members”.
		Structural Testing I, II & III	Objectives, testing techniques, loading and measuring techniques are presented with some examples of the previous tests. Static tests for RC members are also conducted to observe structural performance.
		PC Structures	General principles of prestressed concrete and several examples of precast prestressed concrete buildings are introduced. Performance of precast prestressed concrete buildings during recent earthquakes is summarized with current seismic design procedure of prestressed concrete buildings in Japan. Prestressing methods, and calculation of cracking moment and flexural strength of a beam section are lectured with employing a computer program. New seismic design methods being discussed, for example performance-based design, are also introduced with some design examples.

		Foundation Engineering I, II & III	Design concept and design procedures for static and earthquake loads for several types of foundation i.e. pile, spread and caisson foundations are presented. Furthermore their characteristics, construction methods, selection procedures, repairing methods, etc. are explained.
		Port & Harbor Structures and Tsunami Engineering	Earthquake resistant design for port and harbor structures is explained with some examples of actual earthquake damage.
		Dam Structures	The types of dams including concrete arch, gravity, and embankment dams are explained first. Next, design concepts of each type are given. The design of dams to resist earthquakes is discussed with the performance of dams during earthquakes, dynamic properties of dam materials, and analysis. Particularly, behaviors of dams during the 1995 Hyogoken-Nanbu Earthquake (Kobe Earthquake) and the 2000 Western Tottori Prefecture Earthquake are explained.
		Underground Structures	1. Buried structures and soil deformations in earthquakes 2. Key parameters governing performances of buried structures in earthquakes 3) Earthquake resistant design of buried structures and future problems 4) Other topics
		Bridge Engineering I & II	Overall view of steel and concrete bridges and historical development are presented. Essential engineering issues for steel and concrete bridges are explained.
		Urban Earthquake Disaster Mitigation System	Mechanism and various impacts of earthquake damage in urban areas will be analyzed considering the problems generated by urbanization of the area. Based upon the analysis above, issues for establishing proper countermeasures for disaster mitigation will be discussed.
	Seismic Evaluation and Retrofitting	Seismic Design Codes I & II	Participants investigate the design concept and methods of the selected seismic codes in the world. Presentation and discussion are given for comparison of the surveyed codes. Differences in each code are discussed.
		Earthquake Resistant Limit State Design I & II	The lecture covers an introduction to fundamental energy input concept which gives better understanding of the dynamic behavior of buildings.
		Seismic Evaluation and Rehabilitation: buildings	Seismic capacity evaluation and seismic rehabilitation (retrofit) of existing buildings are introduced with emphasis on our practice after the 1995 Hyogoken-Nanbu Earthquake (Kobe Earthquake) Inspection and evaluation of earthquake damage to buildings and post-earthquake countermeasures for damaged buildings are also introduced.
		Seismic Design and Retrofit of Bridges	This lecture introduces concepts of seismic design method of highway bridges in Japan. The lecture starts from lessons learned from damage experiences in the past extreme earthquakes. Outline and concept of seismic design specifications of highway bridges in Japan are followed. Seismic assessment and retrofit design of existing bridges are presented.

		Seismic Isolation	Seismic isolation system is explained as one of structural response control methods. The Seismic isolation system is most effective to reduce the response and improve safety of a superstructure. Principles of the seismic isolation, merits and demerits of the seismic isolation, and behaviors of buildings with the seismically isolated buildings during earthquake are discussed.
		Design Earthquake Ground Motion and Seismic Force	Seismic design code of Japan is introduced. Some international seismic design codes are also introduced and compared with each other.
		Structural Reliability	Introduction to reliability concept. Probability of failure as a measure for the safety degree. Extreme value distributions as probability model for load intensity. Load and resistance factor format based on the second moment reliability. Target safety degree due to the optimum reliability.
		Structural Response Control	Basic theory on structural seismic response control and its practical applications in Japan
	Seminar of Seismic Design, Seismic Evaluation and Retrofitting		Discussion, presentation and practice for the topic of Seismic Design, Seismic Evaluation and Retrofitting
Earthquake Hazard and Risk Assessment	Earthquake Hazard Assessment	Soil Test and Survey I	Soil investigation has become an important component of construction from the viewpoint of safety. Soil test helps to determine physical characteristics in order to design foundations for structures. Outline of Geotechnical investigation method is introduced in this lecture.
		Strong Earthquake Motion Observation	Strong motion observation plays important role in the fields of earthquake engineering and building engineering. This lecture explains history and the current situation of the strong motion observation in Japan. The strong motion network of Building Research Institute and the recent research works are also introduced. Moreover, the application of the research results using strong motion data for the seismic design and the earthquake disaster mitigation are described.
		Soil Dynamics	Fundamental properties of soil such as non-linearity and constitutive law are reviewed. Dynamic behavior of soil deposits and analytical method are explained with evaluation of material constants.
		Strong Ground Motion Study I (Probabilistic Seismic Hazard Analysis)	Seismic hazard assessment is discussed, that is an estimation of the likelihood of an earthquake occurrence and its magnitude in and around the location of interest and of the severity of strong ground motions expected for a certain return period.
		Strong Ground Motion Study II (Strong Motion Seismology)	Strong-motion seismology is concerned with high frequency seismic waves from large earthquakes. Its ultimate goal is to predict strong ground motion from the basic understanding of fault mechanics and seismic wave propagation in the Earth.
	Earthquake Risk Assessment	Practice for Earthquake Risk Assessment	Topics related on Earthquake Risk Assessment for buildings are given through lectures and observation visits.
		Microtremor Observation I	Practice in the field and analysis are introduced for microtremor that is one of the useful information to evaluate the characteristics of earthquake ground motion.

		Simulation of Seismic Ground Motion	Methodology of how to generate design earthquake ground motion for engineering purpose is explained. In general, the earthquake load is considered as design seismic force. However, some buildings for special purposes are required to examine structural safety using design ground motions in time domain. A conventional methodology used for actual seismic design works will be introduced.	
		Microtremor Observation II	Among many techniques for investigating subsurface shear wave velocity structure, microtremor (or ambient vibration) observation is efficient and cost-effective approach for exploration of soils and sediments. In this lecture, basics of microtremor observation techniques and data processing procedures are introduced. Field exercises on single and multiple observations will be conducted.	
		Seismic Micro-Zonation	This lecture gives an introduction to seismic micro-zoning technique by presenting the methods to estimate the distribution of the local and regional seismic hazard, explaining the preparation process of seismic scenarios, describing the applications of micro-zoning results, and discussing the future of micro-zoning. Various examples of actual studies are also presented.	
	Seminar of Earthquake Disaster-Recovery Management		Discussion, presentation and practice for the topics of Earthquake Disaster-Recovery Management	
Disaster-Recovery Management Policy	Disaster Management Policies A: from Regional and Infrastructure Aspect.		This lecture deals with the various aspects of disaster management policies from the viewpoint of nation-wide or wide range regional and Infrastructure development. The lecture consists of five parts: 1) bird-view lectures to look over the philosophies and principles of disaster management policies, 2) field-wise specialized lectures on practical measures against natural disasters, 3) two special lectures by Japan-representing outstanding lecturers, 4) an one day site-visiting in central Tokyo, and 5) presentations of student groups and overall discussions.	
	Disaster Management Policies B: from Urban and Building Aspect		This lecture aims to provide a broad understanding of disaster risk management policies related to urban, housing and building aspects. It emphasizes application of appropriate and practical measures, reflecting social, economic and environmental conditions of each country.	
	Dissemination for Earthquake Disaster Mitigation	Dissemination for Earthquake Disaster –Recovery Management		Dissemination process for Earthquake Disaster –Recovery Management in Japan is explained through observation visits.
		Japanese ODA Policy and Development Assistance Related with Disaster-Recovery Management		Japanese ODA policy and implementation and the international trend of development assistance related with disaster-recovery management activities including poverty and gender issues are explained.
		Project Cycle Management for Disaster –Recovery Management		Methodology and practice for Project Management Cycle and its facilitation techniques.
		Shaking Table Testing		General concept of structural dynamic test is introduced. Simple shaking table test and free vibration test are practically performed using a small single mass model. Data processing technique is also discussed through the practice.
System Identification in Vibration Analysis		This subject introduces several system identification methods to determine structural characteristics such as natural periods and damping ratios from measuring data of buildings.		

	Seminar of Earthquake Disaster –Recovery Management Policy		Discussion, presentation and practice for the topics of Earthquake Disaster –Recovery Management Policy
Case Study	Practice for Earthquake Disaster Mitigation Policy	Colloquium	Three colloquiums are planned: 1) for the report on the seismic observation and/or seismic codes in the countries of each participant, 2) for the practice of reading scientific papers, and, 3) for explaining the plan of individual study.
		Study Trips	Study trip to northern part of Japan (Tohoku) for a week and to western part of Japan (Kansai) for a week.
	Practice for Seminar of Earthquake Disaster-Recovery Management		Practice for the topics of Earthquake Disaster-Recovery Management
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, 10.Expected Module Output and Contents".

T- Group (Tsunami Group)

Category	Title	Subtitle	Contents
Orientation	Orientation	Overview of Earthquake, Tsunami, and Disasters	Introductory lectures for Seismology and Tsunami Groups are given by staff members of IISEE. Basic concepts and general scope of seismology, earthquake phenomena, strong motion study, seismic hazard and risk, and tsunami, etc. are described.
		Tsunami and Earthquakes	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	Practices on FORTRAN programming for scientific computing and on UNIX and GMT are 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.
	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.
		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.
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.		
Seminar of Basic Seismology		Discussion, presentation and practice for the topics of Basic Seismology	
Advanced Subjects Related with	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 and Disasters		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.
		Focal Mechanism	Basic knowledge and practice for determination of focal mechanism by P-wave first motion method.
		Moment Tensor Analysis	Basic knowledge and practice for determination of focal mechanism by moment tensor inversion method.
		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 landslides or volcanic activities, are also studied.
		Mathematics for Tsunami	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.
Geology for Tsunami	Basic techniques for detecting geological and geomorphological evidences of paleo-tsunami and paleo-earthquake are explained. Subjects include coastal sedimentology, coastal geomorphology and Quaternary geochronology.		
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.
		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).
		Numerical Simulation of Tsunami Inundation and its Application	A finite difference method for the long-wave model is explained. Simulation exercises for tsunami propagation and inundation are given.
		Tsunami Evacuation Planning and Simulation	Overview of tsunami evacuation planning and tsunami evacuation simulation. Hands on concepts, definitions, steps and issues for tsunami evacuation planning. Review of methodologies used on tsunami evacuation simulation.
		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 Damage and Reconstruction I and II	Observation of tsunami damage caused by the Great East Japan earthquake disaster and reconstruction process.
		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.
Tsunami Deposit Survey		Observation of tsunami damage caused by the Great East Japan earthquake disaster and reconstruction process.	
	Tsunami Load and Structural Design of Tsunami Shelter	Observe buildings damage pattern by tsunami in Great East Japan Earthquake. Introduction of design tsunami loads in past guidelines and new design guideline. A study on design flow and an example of Tsunami shelters.	
Special Topics	Study Tour of Earthquake Monitoring	Observation tour to the institutes that have notable activities in the field of Earth Sciences.	
Disaster-Recovery Management Policy	Disaster Management Policies A: from Regional and Infrastructure Aspect.	This lecture deals with the various aspects of disaster management policies from the viewpoint of nation-wide or wide range regional and Infrastructure development. The course consists of five parts: 1) bird-view lectures to look over the philosophies and principles of disaster management policies, 2) field-wise specialized lectures on practical measures against natural disasters, 3) two special lectures by Japan-representing outstanding lecturers, 4) an one day site-visiting in central Tokyo, and 5) presentations of student groups and overall discussions.	
	Disaster Management Policies B: from Urban and Building Aspect	This lecture aims to provide a broad understanding of disaster risk management policies related to urban, housing and building aspects. It emphasizes application of appropriate and practical measures, reflecting social, economic and environmental conditions of each country.	

	Disaster – Recovery Management and Development Assistance	Earthquake Observation	Basic theory of electro-magnetic seismometer is explained. A method for calibration of conventional type of short period seismometer is presented. Practical training for the calibration is also planned. Data acquisition and seismic telemetry systems will be explained.
		Japanese ODA Policy and Development Assistance Related with Disaster-Recovery Management	Japanese ODA policy and implementation and the international trend of development assistance related with disaster-recovery management activities including poverty and gender issues are explained.
		Seminar of Earthquake Disaster-Recovery Management Policy	Methodology and practice for Project Management Cycle and its facilitation techniques. Additionally, joint & mutual observation visits are planned for the JICA course participants of IISEE and ICHARM.
Case Studies	Practice for Earthquake Disaster-Recovery Management Policy I and II	First, Second, and Third Colloquiums	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.
	Practice for Tsunami Disaster Mitigation Policy	Observation of Seismological Observatory	Inspection of the Matsushiro Seismological Observatory, Japan Meteorological Agency.
		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.
Practice for Seminar of Tsunami Disaster Mitigation Policy		Practice for the topics of Tsunami Disaster Mitigation Policy.	
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, 10.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 including Medical History and Examination must be submitted.

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

Part B including Medical History and Examination 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 including Medical History and Examination

This part is to be completed by the person who is nominated by the organization applying. 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 on the Form.

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 or write in **block letters**,
 - (d) fill in the form in **English**,
 - (e) use or 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.

4. Copyright policy

Participants of the JICA Training and Dialogue program are requested to comply with the following copyright policy;

Article 1. Compliance matters with participants' drafting of documents (various reports, action plans, etc.) and presentations (report meetings, lectures, speeches, etc.)

1. Any contents of the documents and presentations shall be created by themselves in principle.



2. Comply with the following matters, if you, over the limit of quotation, have to use a third person's work (reproduction, photograph, illustration, map, figure, etc.) that is protected under laws or regulations in your country or copyright-related multinational agreements or the like:

- (1) Obtain license to use the work on your own responsibility. In this case, the scope of the license shall meet the provisions of Article 2.
- (2) Secure evidential material that proves the grants of the license and specifies the scope of the license.
- (3) Consult with the third party and perform the payment procedure on your own responsibility regarding negotiations with a third person about the consideration for granting the license and the procedure for paying the consideration,.

Article 2. Details of use of works used for training

- (1) The copyright on a work that a participant prepares for a training course shall belong to the trainee. The copyright on the parts where a third party's work is used shall belong to the third party.
- (2) When using texts, supplementary educational materials and other materials distributed for the JICA training courses, participants shall comply with the purposes and scopes approved by each copyright holder.



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)

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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 / Position		Official Stamp	
Department / Division			
Office Address and Contact Information	Address:		
	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)**

[Empty text box for Title]

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

J 0 - [Empty boxes for number]

Attach the nominee's photograph (taken within the last three months) here
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

[Empty boxes for Family Name]

First Name

[Empty boxes for First Name]

Middle Name

[Empty boxes for Middle Name]

2) Nationality (as shown in the passport)			5) Date of Birth (please write out the month in English as in "April")			
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 present organization	Date	Month	Year	Date of assignment to the present position	Date	Month	Year

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

[Empty text box for Outline of duties]

**9) Contact Information**

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

10) Others (if necessary)

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4. Career Record**1) Job Record (After graduation)**

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

2) Educational Record (Higher Education)(required)

Institution	City/ Country	Period		Degree obtained	Major
		From Month/Year	To Month/Year		



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

Institution	City/ Country	Period		Field of Study / Program Title
		From Month/Year	To Month/Year	

5. Language Proficiency (required)

1) Language to be used in the program (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

¹ 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.

¹ Good: Conversational accuracy & fluency in a wide range of situations: discussions, short presentations & interviews. Compound complex sentences. Extended essay formation.

¹ Fair: Broader range of language related to expressing opinions, giving advice, making suggestions. Limited compound and complex sentences & expanded paragraph formation.

¹ 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 and not to claim any cost or damage due to the said 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.
- (h) to approve the privacy policy and the copyright policy mentioned in the Guidelines of Application.

JICA's Information Security Policy in relation to Personal Information Protection

JICA will properly and safely manage personal information collected through this application form in accordance with JICA's privacy policy and the relevant laws of Japan concerning protection of personal information and take protection measures to prevent divulgence, loss or damages of such personal information.

Unless otherwise obtained approval from an applicant itself or there are valid reasons such as disclosure under laws and ordinances, etc., and except for the following 1.-3., JICA will neither



provide nor disclose personal information to any third party. JICA will use personal information provided only for the purposes in the following 1.-3 and will not use for any purpose other than the following 1.-3 without prior approval of an applicant itself.

1. To provide technical training to technical training participants from developing countries.
2. To provide technical training to technical training trainees from developing countries under the CitizensCooperation Activities..
3. In addition to 1. and 2. above, if the government of Japan or JICA determines necessary in the course of technical cooperation.

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.)

<input type="checkbox"/> No	<input type="checkbox"/> Yes >> Name of Medication (_____), Quantity (_____)
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(b) Are you pregnant?

<input type="checkbox"/> No	<input type="checkbox"/> Yes (_____ months)
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(c) Are you allergic to any medication or food?

<input type="checkbox"/> No	<input type="checkbox"/> Yes >>>	<input type="checkbox"/> Medication	<input type="checkbox"/> Food	<input type="checkbox"/> Other:
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(d) Please indicate any needs arising from disabilities that might necessitate additional support or facilities.

(_____)
<i>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.</i>

2. Medical History

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

Past:	<input type="checkbox"/> No	<input type="checkbox"/> Yes>>Name of illness (_____), Place & dates (_____)
Present:	<input type="checkbox"/> No	<input type="checkbox"/> Yes>>Present Condition (_____)

(b) Have you ever been a patient in a mental hospital or been treated by a psychiatrist?

Past:	<input type="checkbox"/> No	<input type="checkbox"/> Yes>>Name of illness (_____), Place & dates (_____)
Present:	<input type="checkbox"/> No	<input type="checkbox"/> Yes>>Present Condition (_____)

(c) High blood pressure

Past:	<input type="checkbox"/> No	<input type="checkbox"/> Yes
Present:	<input type="checkbox"/> No	<input type="checkbox"/> Yes>>Present Condition (_____) mm/Hg to (_____) mm/Hg

(d) Diabetes (sugar in the urine)

Past:	<input type="checkbox"/> No	<input type="checkbox"/> Yes
Present:	<input type="checkbox"/> No	<input type="checkbox"/> Yes>>Present Condition (_____)
		Are you taking any medicine or insulin? <input type="checkbox"/> No <input type="checkbox"/> Yes

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

<input type="checkbox"/> Stomach and Intestinal Disorder	<input type="checkbox"/> Liver Disease	<input type="checkbox"/> Heart Disease	<input type="checkbox"/> Kidney Disease
<input type="checkbox"/> Tuberculosis	<input type="checkbox"/> Asthma	<input type="checkbox"/> Thyroid Problem	
<input type="checkbox"/> Infectious Disease >>> Specify name of illness (_____)			
<input type="checkbox"/> Other >>> Specify (_____)			

(e) Has this disease been cured?

<input type="checkbox"/> Yes	<input type="checkbox"/> No (Specify name of illness)
	Present Condition: (_____)

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

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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: