



# Knowledge Co-Creation Program (Online)

## General information on

**Short-term Program of Innovative Asia: Okayama University  
(IT and RT Training Program for Supporting Health Systems)  
ヘルスシステムを支える IT・RT 人材研修プログラム  
JFY 2021**

**Course No.: 201702823-J038**

**Online Program Period: From October 18<sup>th</sup> to October 29<sup>th</sup>, 2021**

This information pertains to one of the JICA Knowledge Co-Creation Programs (Group & Region Focus) of the Japan International Cooperation Agency (JICA) implemented as part of the Official Development Assistance of the Government of Japan based on bilateral agreement between both Governments.

### JICA Knowledge Co-Creation Program (KCCP)

The Japanese Cabinet released the Development Cooperation Charter in February 2015, which stated, *“In its development cooperation, Japan has maintained the spirit of jointly creating things that suit partner countries while respecting ownership, intentions and intrinsic characteristics of the country concerned based on a field-oriented approach through dialogue and collaboration. It has also maintained the approach of building reciprocal relationships with developing countries in which both sides learn from each other and grow and develop together.”* JICA believes that this ‘Knowledge Co-Creation Program’ will serve as a foundation of mutual learning process.

# I. Concept

## **Background**

In line with the "Japan Revitalization Strategy" approved by the Japanese Cabinet in June 2016, the Government of Japan is advancing the measures to mobilize the diverse governmental resources, in order that competent human resources of Asian developing/emerging countries play more active roles in contributing to industrial growth of their home countries through having deeper working experience at best innovative Japanese companies, thereby knowing better how innovation is being promoted in Japan.

To promote the above policy initiative, the following strategies are decided to:

- (1) launch a new initiative of ODA to offer opportunities for graduate study and internship in Japan,,
- (2) hold job-matching events and provide related information for students who belong to "partner schools" and are interested in working in Japan,
- (3) take necessary measures such as providing preferential treatment with regard to their visa status and expediting the administrative procedure when students of "partner schools" hope to work in Japan on certain conditions.

## **For what?**

Innovative Asia initiative aims to enhance circulation of competent human resources between Japan and Asian countries and to promote innovation in the whole Asia.

With this context, this program aims to provide participants with the opportunity to acquire skill and knowledge contributing to industrial growth at best innovative environment in Japan; such as universities, research institutes, government organizations, and private companies.

## **For whom?**

This program is offered to competent graduates of 'partner schools' in Asian countries, especially in such fields as Science and Technology, and Engineering, especially, Information Technology, Internet of Things, Artificial Intelligence, etc.

## **How?**

Participants shall have opportunities in online to receive various lectures related to the topics of IT and RT for Supporting Health Systems and a programming practice to implement a screen-type user interface system by Java Swing.

## II. Description

**1. Title (Course No.)**

**Title (J-No.): Short-term Program of "Innovative Asia" by Okayama University (IT and RT Training Program for Supporting Health Systems) (201702823-J038)**

**2. Online Program Period**

From October 18<sup>th</sup> to October 29<sup>th</sup>, 2021  
11:00~12:30 and 14:30~16:00 (17:00) (Japan Standard Time)

**3. Target Regions or Countries**

Bangladesh, Cambodia, India, Laos, Malaysia, Pakistan, the Philippines, Sri Lanka, and Vietnam (9 countries)

**4. Eligible / Target Organization**

This program is designed for graduates of the "partner school"s of the above countries (see ANNEX)

**5. Capacity (Upper Limit of Participants)**

20 participants

**6. Language**

English

**7. Objective(s)**

This course aims to train participants who are interested in improving knowledge and skills to develop health support systems applying mainly Information Technology and Robot Technology.

## 8. Output and Contents<sup>1</sup>

This course consists of the following components. Details on each component are given below.<sup>2</sup>

### Tentative Program

#### 1st Week

	October 18 Mon.	October 19 Tue.	October 20 Wed.	October 21 Thu.	October 22 Fri.
11:00-12:30 JST	Orientation Introduction of GSISE	Lecture: Problems and Needs in Medical Fields	Lecture: Biotechnology	Lecture: Biotechnology	Lecture: Biotechnology
14:30-16:00 JST	Lecture: Interdisciplinar y Science	Practice: Screen-type Interface Design in Java	Meeting with foreign students in GSISE	Practice: Screen-type Interface Design in Java	Practice: Screen-type Interface Design in Java
16:15-17:00 JST			Introduction of Japan		Introduction of Okayama

#### 2nd Week

	October 25 Mon.	October 26 Tue.	October 27 Wed.	October 28 Thu.	October 29 Fri.
11:00-12:30 JST	Lecture: History of Technology	Lecture: Computer Networks	Practice: Screen-type Interface Design in Java	Lecture: Applications of RT and VR Technologies	Lecture: Brain Science
14:30-16:00 JST	Practice: Screen-type Interface Design in Java	Practice: Screen-type Interface Design in Java	Introduction of Japanese Culture	Practice: Screen-type Interface Design in Java	Closing ceremony

\*GSISE refers to Graduate School of Interdisciplinary Science and Engineering in Health Systems

<sup>1</sup> ・実施計画書の「単元目標(成果)」を記載する。本様式は必須としないが、項目(単元目標、研修内容、方式)は含めることとする。また追加の情報(講師名等)を含めることも可。  
・遠隔研修の場合、オンラインでの実施方法を記載する。

<sup>2</sup> 事前・事後活動、在外補完研修を行う場合は、適宜記載する。

## **<Structure of the Course>**

Topic outline (subject to minor changes)

1st week (10/18-22)

- (1) Orientation, Introduction of Graduate School of Interdisciplinary Science and Engineering in health Systems
- (2) Lectures: Interdisciplinary Science, Problems and Needs in Medical Fields, and several topics related with Biotechnology
- (3) Practices: Screen-type Interface Design in Java
- (4) Online Meeting with foreign students in Graduate School of Interdisciplinary Science and Engineering in health Systems
- (5) Introduction of Japan, Introduction of Okayama

2nd week (10/25-29)

- (1) Lectures: History of Technology , Computer Networks, Applications of RT and VR Technologies, and Brain Science
- (2) Practices: Screen-type Interface Design in Java
- (3) Introduction of Japanese Culture
- (4) Closing Ceremony

## III. Eligibility and Procedures

### 1. Expectations to the Applying Organizations

This program is enriched with contents and facilitation schemes specially developed in collaboration with relevant prominent organizations in Japan. Applying organizations are expected to nominate the most qualified candidates, carefully referring to the qualifications described in section III-2 below.

### 2. Nominee Qualifications

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

#### (1) Essential Qualifications<sup>3</sup>

- 1) Experience in the relevant field
- 2) Experience with Programming (in any language)
- 3) Educational Background: graduates of “partner school”s (see ANNEX), Bachelor degree holders
- 4) Age: Less than thirty-five (35) years old
- 5) Language<sup>4</sup>: have a competent command of spoken and written English which is equal to TOEFL iBT 90 or more. Please attach an official certificate for English ability such as TOEFL, TOEIC etc, if possible)
- 6) Internet Environment: PC with microphone & web camera, and good internet access environment.
- 7) Preparation : Installing a Java SDK on one’s computer (Instruction to install Java SDK will be informed)

#### (2) Recommended Qualifications<sup>5</sup>

- 1) Expectations for the Participants<sup>6</sup> : Researchers in Engineering who are interested in Health Systems or Researchers in Medical Fields
- 2) Gender Consideration<sup>7</sup>: JICA promotes gender equality. Women are encouraged to apply for the program.

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<sup>3</sup> ・ここに記載の項目は想定される標準的なものであり、案件毎に必要なに応じて追加と削除を行なう。  
・遠隔研修の場合、参加者個人の IT 環境を参加要件として設定するか否かはコース毎に検討し適宜記載（安定したネットワーク環境/マイク/カメラの用意、早朝/夜間のライブ会議への参加ができること等）。

<sup>4</sup> 求められる英語力のレベルを具体的に記載する（新アプリケーションフォームの語学レベルの目安を記載。目安となる TOEFL のスコアを記載、等）

<sup>5</sup> 設定することが必要な場合のみ記載する。また含まれる場合は、以下、障害当事者の参加を促進するための項目の追記を推奨する。

4) Difficulties/Disabilities: The participation of person with difficulties/disabilities is welcomed.  
Reasonable accommodation for persons with difficulties/disabilities will be made. Please write your situation in the Questionnaire on medical status restriction of the Application form. (Japan ratified the Convention on the Rights of Persons with Disabilities in January 2014 and JICA has observed it.)

<sup>6</sup> 参加者に求める望ましい要件がある場合は記載する。

<sup>7</sup> ジェンダーバランスの平準化を目的として記載する。但し、各コースの状況に応じて柔軟に調整（修正・削除）可能。

### 3. Required Documents for Application<sup>8</sup>

(1) **Application Form**: The Application Form is available at **the JICA overseas office (or the Embassy of Japan)**<sup>9</sup>

(2) **Photocopy of Passport**<sup>10</sup>: You should submit it with the application form if you possess your passport. If not, you are requested to submit the photocopy of ID document.

\*The following information should be included in the photocopy:

Name, Date of Birth, Nationality, Sex, (Passport Number and Expiry Date)

(3) **English Score Sheet**: to be submitted with the application form, if the nominees have any official English examination scores. (e.g., TOEFL, TOEIC, IELTS)

(4) **GPA (Grade Point Average) Score at university (undergraduate level)**: to be submitted with the application form

### 4. Procedures for Application and Selection

#### (1) Submission of the Application Documents<sup>11</sup>

Closing date for applications: **Please confirm the local deadline with the JICA overseas office (or the Embassy of Japan).**

(All required material must arrive at **JICA Center in Japan** by September 17, 2021)

#### (2) Selection<sup>12</sup>

Primary screening is conducted at the JICA overseas office (or the embassy of Japan) after receiving official documents from your government. JICA Center will consult with concerned organizations in Japan in the process of final selection. Applying organizations with the best intentions to utilize the opportunity will be highly valued.

The Government of Japan will examine applicants who belong to the military or other military-related organizations and/or who are enlisted in the military, taking into consideration of their duties, positions in the organization and other relevant information in a comprehensive manner to be consistent with the Development Cooperation Charter of Japan.

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<sup>8</sup> (1) (2)定型とする。(3) (4)は、該当する事項のみを記載、不要なものは削除。必要に応じて申請者の組織図を追加提出依頼も可能。他にも必要な書類があれば加筆する。

<sup>9</sup> コースの状況に応じて柔軟に調整(修正・削除)可能

<sup>10</sup> 遠隔研修の場合、査証手続き目的のパスポート提出は不要ながら、研修員の本人確認のためパスポート(またはそれに準じる身分証等)の提出を依頼。

<sup>11</sup> 遠隔研修の場合、在外拠点における対応期間も考慮した上で締切日を設定(来日研修では査証申請の観点から来日1か月以上前を提出期限と設定)。

<sup>12</sup> 軍関係機関からの応募が見込まれる場合は、企画部作成「軍事利用回避原則」を参照のこと。  
<https://portal.jica.go.jp/tm/TA/001/Lists/list01/DispForm.aspx?ID=344>

### **(3) Notice of Acceptance**

The JICA overseas office (or the Embassy of Japan) will notify the results **not later than September 30, 2021.**

## **5. Conditions for Participation<sup>13</sup>**

The participants of KCCP are required

- (1)** to strictly observe the course schedule,
- (2)** to refrain from recording the lectures and using lecture and practice materials.

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<sup>13</sup> ・本節は、定型であるが、一時出国の制限など案件に応じて加筆修正を可とする。  
・遠隔研修の場合、(2)以降の項目が該当しない場合は不要箇所の削除は可能。また、遠隔講義内容の録音・録画禁止等を追加する場合は加筆修正を可とする。



## IV. Administrative Arrangements

### 1. Organizer (JICA Center in Japan)

(1) **Center**<sup>14</sup>: JICA Chugoku

(2) **Contact**: jicacic@jica.go.jp

### 2. Implementing Partner

(1) **Name**<sup>15</sup>: Graduate School of Interdisciplinary Science and Engineering in Health Systems, Okayama University

(2) **URL**: <http://www.gisehs.okayama-u.ac.jp/english/>

\*YouTube of “Knowledge Co-Creation Program and Life in Japan” and “Introduction of JICA Center” are viewable from the link below.

Image videos of 'Introduction of JICA Center (YouTube)' show the following information of JICA Centers: Location, Building, Entrance, Reception(Front desk), Lobby, Office, Accommodation(Room), Amenities(Hand dryer), Bathroom(Shower and Toilet), Toiletries, Restaurant, Laundry Room(Washing machine, Iron), ICT Room(Computer for participants), Clinic, Cash dispenser, Gym, Neighborhood

<b>Part I: Knowledge Co-Creation Program and Life in Japan</b>	
English ver.	<a href="https://www.youtube.com/watch?v=SLurfKugrEw">https://www.youtube.com/watch?v=SLurfKugrEw</a>
French ver.	<a href="https://www.youtube.com/watch?v=v2yU9ISYcTY">https://www.youtube.com/watch?v=v2yU9ISYcTY</a>
Spanish ver.	<a href="https://www.youtube.com/watch?v=m7l-WIQSDjl">https://www.youtube.com/watch?v=m7l-WIQSDjl</a>
Russian ver.	<a href="https://www.youtube.com/watch?v=P7_ujz37AQc">https://www.youtube.com/watch?v=P7_ujz37AQc</a>
Arabic ver.	<a href="https://www.youtube.com/watch?v=1iBQqdpXQb4">https://www.youtube.com/watch?v=1iBQqdpXQb4</a>
<b>Part II: Introduction of JICA Centers in Japan</b>	
JICA Hokkaido (Sapporo)	<a href="https://www.jica.go.jp/sapporo/english/office/index.html">https://www.jica.go.jp/sapporo/english/office/index.html</a>
JICA Hokkaido (Obihiro)	<a href="https://www.jica.go.jp/obihiro/english/office/index.html">https://www.jica.go.jp/obihiro/english/office/index.html</a>
JICA Tohoku	<a href="https://www.jica.go.jp/tohoku/english/office/index.html">https://www.jica.go.jp/tohoku/english/office/index.html</a>
JICA Tsukuba	<a href="https://www.jica.go.jp/tsukuba/english/office/index.html">https://www.jica.go.jp/tsukuba/english/office/index.html</a>
JICA Tokyo	<a href="https://www.jica.go.jp/tokyo/english/office/index.html">https://www.jica.go.jp/tokyo/english/office/index.html</a>
JICA Yokohama	<a href="https://www.jica.go.jp/yokohama/english/office/index.html">https://www.jica.go.jp/yokohama/english/office/index.html</a>
JICA Hokuriku	<a href="https://www.jica.go.jp/hokuriku/english/office/index.html">https://www.jica.go.jp/hokuriku/english/office/index.html</a>
JICA Chubu	<a href="https://www.jica.go.jp/chubu/english/office/index.html">https://www.jica.go.jp/chubu/english/office/index.html</a>
JICA Kansai	<a href="https://www.jica.go.jp/kansai/english/office/index.html">https://www.jica.go.jp/kansai/english/office/index.html</a>
JICA Chugoku	<a href="https://www.jica.go.jp/chugoku/english/office/index.html">https://www.jica.go.jp/chugoku/english/office/index.html</a>
JICA Shikoku	<a href="https://www.jica.go.jp/shikoku/english/office/index.html">https://www.jica.go.jp/shikoku/english/office/index.html</a>
JICA Kyushu	<a href="https://www.jica.go.jp/kyushu/english/office/index.html">https://www.jica.go.jp/kyushu/english/office/index.html</a>
JICA Okinawa	<a href="https://www.jica.go.jp/okinawa/english/office/index.html">https://www.jica.go.jp/okinawa/english/office/index.html</a>

<sup>14</sup> 所管センター名を記載。

<sup>15</sup> 研修受託機関、関係省庁等の名称を記載。

## V. Other Information<sup>16</sup>

Lectures and Practices are provided in English as online lectures (by Zoom). Participants should prepare a PC with microphone & web camera and have a good internet access environment. In addition, participants require to install in advance a stable version of Java SDK on the PC prepared. The instruction of installing the Java SDK will be informed beforehand to participants.

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<sup>16</sup> 服装や持ち物に関する注意、研修実施時期の天候、インターネットアクセス、使用する機材についてなど、必要に応じて自由に記載する(特に無い場合は記載不要)。

## VI. Annex: *List of Partner schools*

No.	Country	School
1	Bangladesh	Bangladesh University of Engineering & Technology
2		University of Dhaka
3	Cambodia	Institute of Technology of Cambodia
4		Royal University of Phnom Penh
5	India	Indian Institute of Technology Hyderabad
6		Indian Institute of Technology Bombay
7		Indian Institute of Technology Delhi
8		Indian Institute of Technology Delhi Madras
9		Indian Institute of Technology Kanpur
10		Indian Institute of Technology Kharagpur
11		Indian Institute of Technology Roorkee
12		Indian Institute of Information Technology, Design, and Manufacturing: IIITDM-J
13		Indian Institute of Technology Guwahati
14		Indonesia
15	Universitas Gadjah Mada	
16	Institut Teknologi Sepuluh Nopember	
17	Universitas Indonesia	
18	Universitas Hasanuddin	
19	Universitas Darma Persada	
20	Bogor Agricultural University	
21	Laos	National University of Laos
22	Myanmar	University of Yangon
23		Yangon Technological University
24		Mandalay Technological University
25	Malaysia	Universiti Sains Malaysia
26		Universiti Malaya
27		Universiti Putra Malaysia
28		Universiti Teknologi Malaysia
29		Universiti Tun Hussein Onn Malaysia

30		Universiti Malaysia Sabah
31		Universiti Teknologi MARA
32	Malaysia	Universiti Teknologi Petronas
33		Universiti Kebangsaan Malaysia / The National University of Malaysia
34		Management and Science University
35	Pakistan	National University of Sciences and Technology Islamabad
36		University of Engineering and Technology Lahore
37		NED (Nadirshaw Eduljee Dinshaw) University of Engineering and Technology,, Karachi
38	The Philippines	University of the Philippines – Diliman
39		De La Salle University
40		Mindanao State University-Iligan Institute of Technology
41		Ateneo de Manila University
42	Sri Lanka	University of Colombo
43		University of Peradeniya
44	Thailand	Chulalongkorn University
45		King Mongkut's Institute of Technology Ladkrabang
46		Burapha University
47		Kasetsart University
48		Thammasat University
49		King Mongkut's University of Technology Thonburi
50		Prince of Songkla University
51		Asian Institute of Technology
52		Mahidol University
53		Chiang Mai University
54		Khon Kaen University
55		Thai-Nichi Institute of Technology
56	Vietnam	Hanoi University of Science and Technology
57		Ho Chi Minh City University of Technology
58		Vietnam-Japan University
59		Hanoi University of Industry
60		Industrial University of Ho Chi Minh City

## For Your Reference<sup>17</sup>

### **JICA and Capacity Development**

Technical cooperation is people-to-people cooperation that supports partner countries in enhancing their comprehensive capacities to address development challenges by their own efforts. Instead of applying Japanese technology per se to partner countries, JICA's technical cooperation provides solutions that best fit their needs by working with people living there. In the process, consideration is given to factors such as their regional characteristics, historical background, and languages. JICA does not limit its technical cooperation to human resources development; it offers multi-tiered assistance that also involves organizational strengthening, policy formulation, and institution building.

Implementation methods of JICA's technical cooperation can be divided into two approaches. One is overseas cooperation by dispatching experts and volunteers in various development sectors to partner countries; the other is domestic cooperation by inviting participants from developing countries to Japan. The latter method is the Knowledge Co-Creation Program, formerly called Training Program, and it is one of the core programs carried out in Japan. By inviting officials from partner countries and with cooperation from domestic partners, the Knowledge Co-Creation Program provides technical knowledge and practical solutions for development issues in participating countries.

The Knowledge Co-Creation Program (Group & Region Focus) has long occupied an important place in JICA operations. About 400 pre-organized courses 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 is being customized by the different target organizations to address the specific needs, 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, as the first non-Western nation to become a developed country, built itself into a country that is free, peaceful, prosperous and democratic while preserving its tradition. Japan will serve as one of the best examples for our partner countries to follow in their own development.

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 a process of adoption and adaptation, of course, has been accompanied by countless failures and errors behind the success stories.

Through Japan's progressive adaptation and application of systems, methods and

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<sup>17</sup> 本記載部分は定型である。

technologies from the West in a way that is suited to its own circumstances, Japan has developed a storehouse of knowledge not found elsewhere from unique systems of organization, administration and personnel management to such social systems as the livelihood improvement approach and governmental organization. It is not easy to apply such experiences to other countries where the circumstances differ, but the experiences can provide ideas and clues useful when devising measures to solve problems.

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.



**Contact Information for Inquiries**

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

**JICA Chugoku Center (JICA Chugoku)**

Address: 3-3-1 Kagamiyama, Higashi Hiroshima City,  
Hiroshima 739-0046

Tel: 082-421-6300 Fax: 082-420-8082