## Face-to-Face (in Japan)

Knowledge Co-Creation Program (Group and Region Focus)

# Sustainable Small-Scale Fisheries for Fisheries-Centered Blue Economy (Academic Program)



Course Number: 202311545J001

Course Period: June 22 - July 29, 2025



- PRAZO DE INSCRIÇÃO NO BRASIL: 18/04/2025
- EMAIL PARA ENVIO DA INSCRIÇÃO: jicabr-training@jica.go.jp

NOTE: Adobe Acrobat Leader DC and Google Chrome are recommended as PDF viewer. JAWS and NVDA are recommended as screen reader. NOTE: If there are any difficulties in reading this document, please contact JICA Office in your country or JICA Center in Japan.

NOTE: Depending on the circumstances, some or all of the program periods may be changed or cancelled after the application has been accepted.

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# Promote Blue Economy

Understand Blue Economy in Japan,
Deepen Your Knowledge on Blue Economy,
Refine Research Idea,
Contribute to Promote Blue Economy in Your
Country.

#### **Outline**



This program is designed for a person in the field of Fisheries and Blue Economy, who is willing to continue the study in master or PhD course in a Japanese university.

The participants learn about bule economy in general first, and improve their own research plan with support of Japanese universities.

Two weeks, participants take lectures, workshops, and fild trip to overview Japanese Blue Economy.

One week, participants study at university. They deepen the knowledge of their interest field and improve the research plan at the university.

Final week, you will prepare and present an original action plan for future small-scale fisheries development in blue economy in accordace with your knowledge and skills learned in the program.

All sessions are carried out in English.

The period of the program is from September 9 to October 14, 2024.
Course Capacity: 13

participants



# JICA Knowledge Co-Creation Program (KCCP)

The Japanese Cabinet released the Development Cooperation Charter in February 2015, stated that "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." We believe that this 'Knowledge Co-Creation Program' will serve as a foundation of mutual learning process.

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# For What?

#### **Background**

Recently, Fisheries development policies formulated by developing countries and donor agencies are referring the Blue Economy, which promotes economic development in the area of ocean and inland water. The Blue Economy is attracting attention to the small-scale fisheries and enhancing their sustainability and profitability. The small-scale fisheries Japan, which is multispecies resources and multi-gear fisheries dominated by smaller vessels, shares similarities with those of developing countries, and the experiences of the Japanese fisheries development can be applied to Blue Economy development in participants' countries.

This course is designed for persons who are willing to continue study in Higher Education, especially in Japan.

#### **Objectives**

The participants enhance their capability for planning and implementation of the research plan and the action plan to promote blue economy of the small-scale fisheries in their countries.

# To Whom?

# Job Areas and Organizations

This program is designed <u>for those</u> who are interested to study in <u>Master or PhD course in Japan</u>.

\*Detail is in page 10~

The applying organization with the best intention to utilize the opportunity of this program will be highly valued in the selection.

#### **Targeted Countries**

Cambodia, Palestine, Egypt, Morroco, Tunisia, Namibia, Somalia, Cameroon, Djibuti, Mauritius, Senegal Country Forcus: Djibouti, Morroco

Based on the Application Documents, participants will be selected within 13 members.

Participants who have successfully completed the program will be awarded a certificate by JICA.



# When?

# Where?

#### Period of Program in Japan



This course is carried out face to face, organized by JICA Yokohama Center. Site visit is planned for other areas.





# How?

#### How to Learn

- Lectures
- Field Visits
- Workshops
- Discussions
- Presentations
- (Online Self-Study)
- (Online Interactive)
- Q&A Session











Present







Study

Watch

#### Language

English

#### Commitment to the SDGs









#### **Program Structure**

#### Tentative Program (\*program may change)

Sep 8	Sun	Arrival to Japan	
Sep 9	Mon	Brifing and Program Orientaion	
		Workshop: Planning method for research / action plans	Practice
Sep 10	Tue	Workshop: Planning method for research / action Plans	Practice
Sep 11	Wed	Workshop: Planning Method for research / action Plans	Practice
Sep 12	Thu	Lecture: JICA's strategy in blue economy promotion	Lecture
		Lecture: Overview of fisheries in Japan	
		Lecture: Concept of fisheries development in blue economy	
Sep 13	Fri	Presentation & discussion: Draft research plan and project idea	Presentation
Sep 14	Sat	Individual interview (for setting learning subjects and outputs in	Interview
		the program)	
Sep 15	Sun		
Sep 16	Mon	Lecture: Roles of fisheries administration and fisheries	Lecture
		cooperative association (FCA), and IUU protection in Japan	



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		Lecture: Application of Sato-Umi concept (community-based marine environemantal conservation with the utilization of fisheries resources)	
Sep 17	Tuo	Lecture: Coastal fisheries management (co-management) in Japan	Lecture
3ep 17	Tue	Letcture: Food value chain (FVC) of fisheries products and 6 <sup>th</sup> indudulization	Lecture
Sep 18	Wed	Site visit to Shiba, Yokohama: - Case study in fisheries management (conger eel & mantis shrimp) in Tokyo Bay by fishers' group and local FCA	Site visit
Sep 19	Thu	Site visit to wholesale market of fisheries products in Yokohama	Site visit
		Lecture: Post-harvest treatment and fish processing techniques	Lecture
Sep 20	Fri	Move: Yokohama – Numazu, Shizuoka Precture – Yokohama Visit to a fish farming (cage culture) and a marine aquarium	Site visit
Sep 21	Sat		
Sep 22	Sun		
Sep 23	Mon	Move: Yokohama – Katsu-ura, Chiba Prefecture     Case study in fisheries management and marketing of demersal fish (alfonsin) by local FCA     Observation of fish auction at local fish market, etc.	Site visit
Sep 24	Tue	Site visit to Katsu-ura, Chiba Prefecture: - Stocking / shipping of local fish products (turbo shell, lobster) - Observation of a marine musium, etc. Move: Katsu-ura – Choshi, Chiba Prefeture	Site visit
Sep 25	Wed	<ul> <li>Site visit to Choshi, Chiba Prefeture:</li> <li>Visit to fisheries ports, fish markets, and marketing center of local fisheries products,</li> <li>Visit to a small-scale fish processing factory (fresh/dried fish)</li> <li>Dolphin watching (if available)</li> <li>Move: Choshi – Yokohama</li> </ul>	Site visit
Sep 26	Thu	Lecture: Fishing method and practice in environmental consideration Lecture: Womens' role of blue ecomony in fisheries communities	Lecture
Sep 27	Fri	Workshop: Preparation of reseach plan / action plan	Practice
Sep 28	Sat		
Sep 29	Sun	Move to a designated university	
Sep 30	Mon	Programs at university: Briefing and campus visit	Lecture/Practice
Oct 1	Tue	Programs at university: Practice & discussion in laboratories	Lecture/Practice
Oct 2	Wed	Programs at university: Visit to fisheries research facilities	Lecture/Practice
Oct 3	Thu	Programs at university: Discussion & drafting of research plan	Lecture/Practice
Oct 4	Fri	Programs at university: Presentation / finalization of research plan	Lecture/Practice
Oct 5	Sat	Back to Yokohama / Tokyo	
Oct 6	Sun		
Oct 7	Mon	Workshop: Action planning for a future project in blue economy	Practice
Oct 8	Tue	Workshop: Action planning for a future project in blue economy	Practice
Oct 9	Wed	Workshop: Action planning for a future project in blue economy	Practice
Oct 10	Thu	Workshop: Action planning for a future project in blue economy	Practice
Oct 11	Fri	Presentation & discussion: Proposed research and action plans in blue economy	Presentation
Oct 12	Sat		
Oct 13	Sun		
Oct 14	Mon	Evaluation meeting & Closing session	
Oct 15	Tue	Departure from Japan	



# Eligibility and Procedures

#### 1. Expectations to the Applying Organizations

- (1) This course is designed primarily for organizations that intend to address specific issues or problems identified in their operation. Applying organizations are expected to use the program for those specific purposes.
- (2) This course is enriched with contents and facilitation schemes specially developed in collaboration with relevant prominent organizations in Japan. These special features enable the course to meet specific requirements of applying organizations and effectively facilitate them toward solutions for the issues and problems.

#### 2. Nominee Qualifications

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

#### (1) Essential Qualifications

This course is targeting on a person who is planning to continue the study about Blue Economy in Master Course or Doctor course in Graduate School, especially those who are willing to study in Japanese University.

- 1) Current Duties: be a central or local government official or research institute who are dealing with Blue Economy.
- 2) Experience in the Relevant Field: have at least 3 years of experience in the field.
- 3) Age: Less than thirty five (35) years of age<sup>1</sup>
- 4) Educational Background: be a graduate of university
- 5) Language Proficiency: have a competent command of spoken and written English proficiency equivalent to TOEFL iBT 90 or above (This workshop

<sup>&</sup>lt;sup>1</sup> JICA Long-Term Program(Agri-net) set the requirements of age as less than forty at the applying year. If the person consider to apply through Agri-net(2024), the person needs to be younger than 40 at April 1<sup>st</sup>, 2024.



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includes active participation in discussions, which requires high competence in English. Please attach an official certificate for English ability such as TOEFL, TOEIC etc, if possible)

#### 6) Technical Requirements:

- a Technology Proficiency
  - Basic computer skills such as, sending/receiving email with attachments, using Microsoft Words, Microsoft Power Point, and using a web browser.
  - Online course is delivered using the following services, Web Conferences
    (Zoom), Cloud Storage (GIGAPOD), YouTube, and JICA-VAN
    (Cornerstone). Online tutorial and support by JICA will be limited.
    The ability to be self-directed in learning new technology skills are required.

#### b Hardware (Minimum Requirement)

<u>This course requires to bring your own PC</u>. During the quarantine, participants will join the online program through your PC.

- Operating System: Windows or Mac OS (Updated version is preferred).
- Processor: Intel Core 2 Duo or higher; 2GHz or higher
- Memory: 4GB of RAM or higher
- Hard Drive Space: 5GB free disk space
- Browser: Google Chrome is preferred browser. (Edge, Firefox, Safari can be used)
- Others: Webcam Microphone, and Audio output Device (Speaker or Headset)
- c Software (which may be required)
  - Zoom Client for Meeting (https://zoom.us/download).
- 7) Health: must be in good health to participate in the program in Japan. To reduce the risk of worsening symptoms associated with respiratory tract infection, please be honest to declare in the Medical History (QUESTIONNAIRE ON MEDICAL STATUS RESTRICTION of the application form) if you have been a patient of following illnesses; Hypertension / Diabetes / Cardiovascular illness / Heart failure / Chronic respiratory illness.



#### (2) Recommended Qualifications

1) Gender Equality and Women's Empowerment: Women are encouraged to apply for the program. JICA makes a commitment to promote gender equality and women's empowerment, providing equal opportunity for all applicants regardless of sexual orientation and gender identity.

#### 3. Required Documents for Application

- (1) **Application Form:** The Application Form is available at the JICA overseas office (or the Embassy of Japan)
  - \* If you have any difficulties/disabilities which require assistance, please specify necessary assistances in the QUESTIONNAIRE ON MEDICAL STATUS RESTRICTION (1-(c)) of the application form. Information will be reviewed and used for reasonable accommodation.
- (2) **Photocopy of Passport:** You should submit it with the application form if you possess your passport which you will carry when entering Japan for this program. If not, you are requested to submit its photocopy as soon as you obtain it. \*The following information should be included in the photocopy: Name, Date of Birth, Nationality, Sex, Passport Number and Expiry Date
- (3) **GPA score from University:** Partcipants are distributed to university based on the research plan. To decide university, JICA may ask nominee for the GPA score. Please prepare and submit together with Application form.
- (4) Master / Doctor Course and the University which you pefer to study
  All candidates are required to submit the list of your course and university
  (see Annex II). We cannot guarantee to match your request and university. It
  will be used for the selection to choose suitable university for participants.
- (5) Research Plan and Project Idea: All candidates are required to submit a research plan (see Annex III). Based on the quality of this research plan and project idea, participants will be selected. Without the document, the nominee is not qualified.



#### 4. Procedures for Application and Selection

#### (1) Submission of the Application Documents

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 July 5, 2024)

#### (2) Selection

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, which include universities, in the process of final selection. The Research Plan and Project Idea is used for this 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.

#### (3) Notice of Acceptance

The JICA overseas office (or the Embassy of Japan) will notify the results <u>not</u> <u>later than August 2, 2024.</u>

#### 5. Additional Document to Be Submitted by All Candidate

Master / Doctor Course and the University which you pefer to study (Please fill the Annex  $\mathbf{II}$ ) --to be submitted by July 5, 2024

All candidates are required to sbmit the list of your course and university. We cannot guarantee to match your request and university. It will be used for the selection to choose suitable university for participants.

#### Research Plan and Project Idea -- to be submitted by July 5, 2024

All candidates are required to submit a Research Plan and Project Idea (Please read Annex III" Research Plan and Project Idea" for detailed information.). Applicants must submit the document together with Application Form to JICA overseas office (or the Embassy of Japan). It is used for the selection. Without the document, the nominee is not qualified.



### <u>Presentation Material for Research Plan and Project Idea - to bring with you</u> on arrival

Those accepted Participants are expected to give a presentation after arrived in Japan. Please prepare the presentation on MS Power-Point format about your research plan and project idea for the promotion of blue economy.

#### 6. Conditions for Participation

The participants of KCCP are required

- (1) to strictly observe the course schedule,
- (2) not to change the air ticket (and flight class and flight schedule arranged by JICA) and lodging by the participants themselves,
- (3) to understand that leaving Japan during the course period (to return to home country, etc.) is not allowed (except for programs longer than one year),
- (4) not to bring or invite any family members (except for programs longer than one year),
- (5) to carry out such instructions and abide by such conditions as may be stipulated by both the nominating Government and the Japanese Government in respect of the course,
- (6) to observe the rules and regulations of the program implementing partners to provide the program or establishments,
- (7) not to engage in political activities, or any form of employment for profit,
- (8) to discontinue the program, should the participants violate the Japanese laws or JICA's regulations, or the participants commit illegal or immoral conduct, or get critical illness or serious injury and be considered unable to continue the course. The participants shall be responsible for paying any cost for treatment of the said health conditions except for the medical care stipulated in (3) of "3.Expenses", "Administrative Arrangements",
- (9) to return the total amount or a part of the expenditure for the KCCP depending on the severity of such violation, should the participants violate the laws and ordinances,
- (10) not to drive a car or motorbike, regardless of an international driving license possessed,
- (11) to observe the rules and regulations at the place of the participants' accommodation, and
- (12) to refund allowances or other benefits paid by JICA in the case of a change in schedule.



# Administrative Arrangements

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

(1) **Center**: JICA Yokohama Center (JICA Yokohama)

(2) Program Officer: Mr. HORI Daisuke (yictt1@jica.go.jp)

#### 2. Implementing Partner

To be confirmed soon.

#### 3. Expenses

The following expenses in Japan will be provided by JICA

- (1) Allowances for meals, living expenses, outfits, and shipping and stopover.
- (2) Expenses for study tours (basically in the form of train tickets).
- (3) Medical care for participants who become ill after arriving in Japan (the costs related to pre-existing illness, pregnancy, or dental treatment are not included).
- (4) Expenses for program implementation, including materials.
- (5) For more details, please see "III. ALLOWANCES" of the brochure for participants titled "KENSHU-IN GUIDE BOOK," which will be given before departure for Japan.

\*Link to JICA HP (English/French/Spanish/Russian): https://www.jica.go.jp/english/our\_work/types\_of\_assistance/tech/accept

#### 4. Pre-departure Orientation

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



Part I: Knowledge Co-Creation Program and Life in Japan	
English ver.	https://www.youtube.com/watch?v=SLurfKugrEw
Part II: Introduction of JICA Centers in Japan	
JICA Yokohama	https://www.jica.go.jp/yokohama/english/office/index.html

If the link of these URLs has expired, please access the URL below and search the necessary information from the key word.

https://www.youtube.com/user/JICAChannel02

#### 5. Reference

PDF: KENSHU-IN GUIDE BOOK

For more detailed terms and conditions

https://www.jica.go.jp/english/our work/types of assistance/tech/acceptance/training/c8h0vm0000011i07-att/guide en.pdf



Video: JICA Predeparture Briefing

For more information on life in Japan and KCCP

https://www.youtube.com/watch?v=SLurfKugrEw



Website: JICA

English/French/Spanish/Russian

https://www.jica.go.jp/english/our work/types of assistance/tech/acceptance/training/index.html



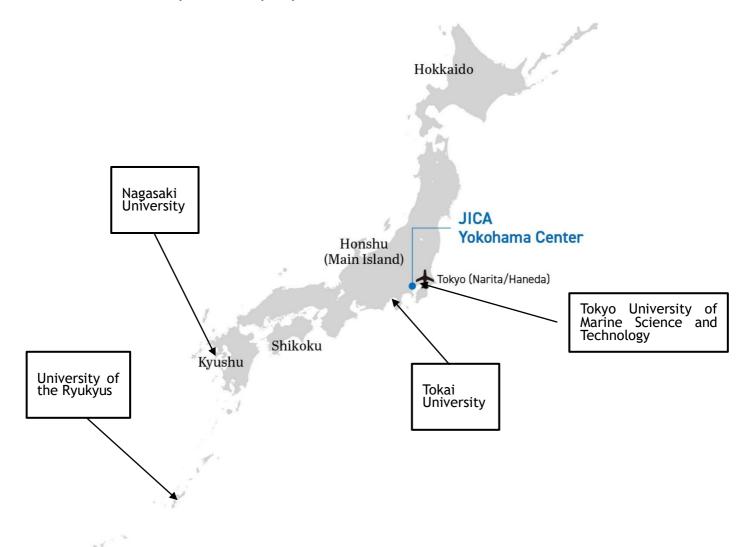
### Annex I

Based on the research plan, JICA will arrange the supervisor and university. Those are the list of Universities that participants get advice on their research plan, and those are the topics that the university is able to instract.

JICA will distribute participants to suitable university. For the process of distribution, JICA may ask nominee about GPA score.

#### List of Universities:

- ① Tokai University
- 2 Tokyo University of Marine Science and Technology
- ③ Nagasaki University
- 4 University of the Ryukyus



Name of University		Tokai University
	ne of School/ partment	School of Marine Science and Technology School of Ocean Studies
1	Professor	Yinji Li
	Field of Specialization	Small-scale fisheries, policy & governance, community revitalization, Umigyo, Blue Justice
	Research Theme	Dr. Yinji Li is a marine social scientist with a Master's in Fisheries Science and a Ph.D. in Marine Science from the Tokyo University of Marine Science and Technology in Japan. She is an Associate Professor at the School of Marine Science and Technology at Tokai University. With Japanese, Korean, Mandarin, and English language skills, her research interests and expertise lie in small-scale fisheries in Northeast Asian regions, including Japan, Korea, Mainland China, and Taiwan. Li is also the Too Big To Ignore (TBTI) Japan Research Network director and the Japan country coordinator of the Vulnerability to Viability Global Partnership (V2V) project and a member of the board of trustees of the International Pole and Line Foundation (IPNLF).  Li, Y., Namikawa, T., Harada, S., Kobayashi, M., Kamiyama, R., Miyata, T., Oishi, T., Sasaki, H., Segi, S., Sato, T., Takenouchi, N., and Wakamatsu, H. (2024). Where Has the "Minsyuka (Democratization)" Gone? A Thorough Assessment of the New Japanese Fishery Act from the Perspective of Small-Scale Fishery Sustainability. In: Nakamura, J., Chuenpagdee, R., Barragán, M.J., Franz, N. (Eds). The Small-Scale Fisheries Guidelines: Global Implementation, MARE Publication Series 14, Springer, Cham.  Li, Y. (2024). Small-scale fishing families and Umigyo, In X.Lou et al. (Eds). Recreational Use and Management of the Sea: Practices in Japan and China. Tokai Education Research Institute. Tokyo. In Japanese.  Li, Y. (2023). Umigyo in Small-Scale Fisheries in Japan: How Protecting Life Above Water Leads to Protecting Life Below Water. INFOFISH, Issue 5.  Li, Y. (2023). Old Values, New Challenges: Japanese Fisheries Cooperative Association, SAMUDRA Report, Issue 90.  Li, Y. Adopting a Blue Justice Lens for Japanese Small-Scale Fisheries: Important Insights from the Case of the Inatori Kinme Fishery (2022). In: Jentoft, S., Chuenpagdee, R., Bugeja Said, A., Isaacs, M. (eds) Blue Justice. MARE Publication Series, vol 26. Springer, Cham.  Li, Y., Chuenpagdee, R. (2021) Governing in an uncert



		• Li, Y., & Namikawa, T. <i>In the Era of Big Change: Essays About Japanese Small-Scale Fisheries</i> . TBTI Global Publication Series, St. John's, NL, Canada. (2020)  ☆For more information on Dr. Li: https://researchmap.jp/10609340?lang=en
2	Professor	Izumi Seki
	Field of Specialization	Gender, women, entrepreneurship, community revitalization, small-scale fisheries
	Research Theme	Izumi Seki is a sociologist, who specializes in fishing village sociology with Ph.D. from Hokkaido University, Japan. Dr. Seki is a professor at the School of Marine Science and Technology at Tokai University, Japan. Her research interests focus on life, culture, and people's activities in fishing communities and research fishing communities throughout Japan. She has been focusing on the possibility of regional tourism as a new industry in the region and entrepreneurial activities that have been activated mainly by women in fishing communities.
		• Seki, I., Network Building of Women in Agriculture, Mountain, and Fishing Villages: The Challenge of Umi-Hito-Kurashi(sea,
		people, livelihood) Network, Quarterly Report of the Japan Fisheries Resources Conservation Association / Japan Fisheries Resources Conservation Association Planning and Editing 14(4) 4-7. (2022). In Japanese.
		• Seki, I., The Meaning of Entrepreneurial Activities of Women in Fishing Villages (Special Issue: Women's Active Participation
		in Fisheries Toward Becoming a Growth Industry), <i>Fisheries Cooperative: Kumiai</i> , 35(3) 3-5. (2018). In Japanese.  ☆For more information on Dr. Seki:  https://researchmap.jp/R map
3	Professor	Seiichi Hiratsuka
	Field of Specialization	Fish processing, food science, value creation of local resources, small-scale fisheries
	Research Theme	Seiichi Hiratsuka is a Ph.D. scientist who is researching seafood processing and chemistry. Dr. Hiratsuka conducts research using scientific approaches to help increase the added value of local marine products. His main research subjects are processing technology for marine products, technology for maintaining freshness and nutritional components, etc. Some of his main books are on Product development and hygiene management using local marine products, dried fish science, national fishery products overview and features of deep-sea fish.
		· Hiratsuka, S., Local Innovation: Turning Low-Value Fish into Local Specialty Kamaboko, In Li, Y., &
		Namikawa, T(eds). In the Era of Big Change: Essays About Japanese Small-Scale Fisheries. TBTI Global Publication



	Series, St. John's, NL, Canada. (2020)
	• Hiratsuka, S., Suitability of longtail tuna as a raw material for 'ara-bushi', Fisheries Science 67(3) 550-552 (2001)
	☆For more information on Dr. Hiratsuka:
	https://researchmap.jp/www24.tsc.u-tokai.ac
Eligibility	
Requirements for	
University (GPA etc)	
Web site	https://www.u-tokai.ac.jp/ud-marine-science-and-technology/
Note	We will make full use of our university's facilities such as the Marine Science Museum and research vessels, as well as the network of TBTI Japan (https://tbtiglobal.net/tbti-japan/), a small-scale fisheries research network consisting of researchers, governments, fishers, and practitioners, etc., to organize a fruitful and meaningful one-week training. Specifically, in addition to on-campus training and exchange meetings with our students, we also plan to visit major fishing communities and cooperatives, prefectural government departments, and the prefectural government research institute in Shizuoka Prefecture.



Name of University		Tokyo University of Marine Science and Technology
Name Depar		Course of Marine Life Sciences
1	Field of Specialization	Population Biology Marine Stock Enhancement Ecology Fish Population Analysis Fish Behavior Dynamics Fishing System Fish Physiology Fish Pathology Fish Nutrition Fish Culture Applied Phycology Genome Science Fish Health Management Applied Microbiology To better understand the physiology and ecology of marine biota as a part of life science, this course conducts education and research on the theories and technologies for the comprehensive and effective production and utilization of marine bio-resources, including the explication of the special mechanism by which marine biota can thrive in the oceans; the management, restoration and protection of bio-resources by making use of these mechanisms; the fishing system; the culture and breeding of fish; the instrumentation of the marine environment; and the creation of a useful marine environment. In addition, the Culture & Safety
	Web	Management Course has been opened to educate and train students to become excellent professionals.  https://www.g.kaiyodai.ac.jp/english/main/masters-course/index.html
Name of School/ Department		Course of Food Science and Technology
2	Field of Specialization	Food Physical Chemistry Food Microbiology Food Hygienic Chemistry



		Food Functional Chemistry
		Food Chemistry and Functional Nutrition
		Marine Biomaterial and Functional Biochemistry
		Food Thermal Processing
		Food Process Engineering
		Food Refrigeration
		Food Processing
		Safety Control in Food Supply Chain
		Safety Management in Food Supply Chain
		Salad Science
		In this course, we educate students and undertake research about principles and advanced technologies related to production, preservation, distribution and consumption of foods, with a focus on marine products. Especially, we comprehensively educate and undertake research focusing not only on securing and improving the safety and healthiness of foods in the chain from resources to consumption, and on improving the functionality of foods from the viewpoints of promoting human health and constancy, but also on developing the designing and performing abilities required for the multidisciplinary development of technologies, from the viewpoints of chemistry, microbiology, physics and engineering, supporting the safety, healthiness and functionality of foods.
	Web site	https://kaiyodai-shokuhin.com/graduate-school.html?lang=en
NT.	C C 1 1/	
Nam Dena	e of School/ artment	Course of Marine Resourses and Environment
-		Marine Biology
3	Specialization	Aquatic Environmental Chemistry
	Specialization	Environmental System Science
		Ocean Environment Technology
		The Course of Marine Resources and Environment provides students with educational and research opportunities to learn about
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		The Course of Marine Resources and Environment provides students with educational and research opportunities to learn about cutting-edge theories, from physical and engineering perspectives, in connection with issues related to the structure and conservation of the ocean, relationships between marine life and the environment, and development and use of the ocean and
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		The Course of Marine Resources and Environment provides students with educational and research opportunities to learn about cutting-edge theories, from physical and engineering perspectives, in connection with issues related to the structure and conservation of the ocean, relationships between marine life and the environment, and development and use of the ocean and ocean-floor resources and energy, as well as to learn about relevant applied technologies, in order to achieve the sustainable use of marine resources while preserving the marine environment.
		The Course of Marine Resources and Environment provides students with educational and research opportunities to learn about cutting-edge theories, from physical and engineering perspectives, in connection with issues related to the structure and conservation of the ocean, relationships between marine life and the environment, and development and use of the ocean and ocean-floor resources and energy, as well as to learn about relevant applied technologies, in order to achieve the sustainable use



	Web site	utilization of its resources and energy, and focus on engineering technologies for improving the safety and productivity of marine production activities.  Specifically, we teach about and research into component analysis, exploration, development and utilization of marine mineral and energy resources, improvement of environmental performance, safety and economy of marine facilities, safety of environmentally sound marine machine systems, marine operations and ships, maintenance and safe usage of coast areas, acoustic instrumentation of marine creatures' resource volume, biology and living environment, and purification of hydrospheric environment, etc.  https://www.g2.kaiyodai.ac.jp/cmes3/en/index.html
Nam Depa	e of School/	Course of Marine Policy and Management
4	Web	General View on Marine Policy General View on Marine Utilization and Management International Marine Management Policy  "Marine Policy and Management" means action plans to change the current state of use and management of the marine environment and resources to a desirable state, aiming for the coexistence of the ocean and humankind and the achievement of sustainable development.  "Course of Marine Policy and Management" is a new academic field that aims to conduct interdisciplinary education and research on specific issues related to the marine environment, resources, transportation, information, and safety, and to formulate policies that meet the needs of our society.  This course provides interdisciplinary and practical education from an international perspective in a variety of fields related to marine policy, marine utilization and management, and marine environmental culture, with the aim of fostering advanced professionals who can develop the big picture of marine policy and management.  https://www.g2.kaiyodai.ac.jp/cmpm9/English/index.html
Requ	bility irements for ersity (GPA etc)	N/A



Name of University		Nagasaki Univesity
	e of School/ artment	Organization for Marine Science and Technology
1	Professor	Gregory N. Nishihara, Professor
	Field of Specialization	Ecophysiology of seaweeds
	Research Theme	<ul> <li>Nutrient uptake and photosynthesis of commercially important seaweed species</li> </ul>
	Theme	<ul> <li>Net ecosystem productivity and carbon capture potential of seaweed aquaculture</li> </ul>
		• Temperature response of photosynthesis of commercially important seaweed species
Name of School/ Department		Graduate School of Integrated Science and Technology
2	Professor	Dr. Mitsuhiko Koyama, Associate Professor
	Field of Specialization	Microbial engineering, bioinformatics
	Research Theme	We accept a wide range of research themes related to microbial technologies for the treatment and recycling of aquaculture wastes and wastewater. Our lab has conducted several related researches as follows:
		Ammonia fermentation of shrimp pond sludge
		https://www.sciencedirect.com/science/article/pii/S0959652619345883 https://www.sciencedirect.com/science/article/pii/S0013935121016005
		· Anaerobic digestion of aquatic weed biomass that overgrows and interferes with fisheries
		https://www.sciencedirect.com/science/article/pii/S0960852417305369 https://link.springer.com/article/10.1007/s10201-018-0557-z
3	Professor	Dr. Hideki Nakayama, Professor
	Field of Specialization	Environmental Bioengineering, Bioscience



Research	Development of biotechnology for upcycling chemical elements in waste biomass to valued chemicals.
Theme	• Zou Z, Kaothien-Nakayama P, Ogawa-Iwamura J, Nakayama H. Metabolic engineering of high-salinity-induced biosynthesis of
	γ-aminobutyric acid improves salt-stress tolerance in a glutamic acid-overproducing mutant of an ectoine-deficient Halomonas
	elongata. Applied Environmental Microbiolohy. 90(1):e0190523.
	· Nakayama H, Kawamoto R, Miyoshi K: Ectoine production from putrefactive non-volatile amines in the moderate halophile
	Halomonas elongata. IOP Conference Series: Earth and Environmental Science, 439 (1), art. no. 012001.
	· Nakayama H, Shin Y, Sumita T, Urata K, Ikegami Y: Characterization of Manganese oxide-biomineralization by the psychrophilic
	marine bacterium, Arthrobacter sp. strain NI-2 and its spontaneous mutant strain NI-2'. Environment and Natural Resources Journal
	17(4), 68-77.
Eligibility	N/A
Requirements for	
University (GPS etc)	
Web site	Dr. KOYAMA: Lab website: <a href="https://www.koyamalab.com/en">https://www.koyamalab.com/en</a>
	Dr. NAKAYAMA: https://nakayamalab.com



Name of University		University of the Ryukyus	
Name of School/ Department		Graduate School of Engineering and Science	
1	Professor	Akihiro Takemura	
	Field of Specialization	Fish Biology and Aquaculture	
	Research Theme	Perception and utilization of aquatic environments in fish Fukunaga K, Takeuchi Y, Yamauchi C, Takemura A (2022). Induction of mass spawning under artificial moonlight in the honeycomb grouper <i>Epinephelus merra</i> , a lunar-synchronized spawner with a full-moon preference. Biological Rhythm Research 53: 1-14.	
Name of School/ Department		Organization for Research Promotion	
2	Professor	Yuji Hiratsuka	
	Field of Specialization	Fisheries Biology	
	Research Theme	Aquaculture of invertebrates in coral reefs Hiratsuka, Y., Uehara, T. (2005). Feeding ecology of four species of sea urchins (Genus echinometra) on the Okinawan coral reefs. Zoological Science, 22: 1512.	
Eligibility Requirements for University (GPS etc)		Non	
Web site		https://www.u-ryukyu.ac.jp/en/ and https://coinext2.skr.u-ryukyu.ac.jp/en/	



## Those who are interested to apply for Long Tearm Program (Agri-Net) after this cousre

- 1) This course is KCCP short tearm program. Joining this course does not mean the participant have guaranteen for accepting JICA Long-Term program or any Scholarship for Universities.
- 2) Some universities have own requirement to apply for the graduate schools. If the candidate are considering to apply for those universities, please make sure the admission requirements (such as GPA scores, English scores, etc.) thorough those universities websites.
- 3) Those who are interested to apply for long team program, please contact to JICA Overseas Office in your country.

## Annex II

# Master / Doctor Course and the University which you pefer to study

Choose three universities from Annex 1, and fill the format below.

Your school will be selected from your priority list. However, by the selection, we cannot guarantee to set the school as you requested.

Which couse you are interested in: Masster or Doctor				
Please choose and sercule from below.				
Master	Doctor			

The University of your choice						
Read the General Information and chose Name of University(and Professor) from the						
list of Universitas.						
Basically, your university will be chosen from the list of your choice.						
Priority	Name of University (and Professor)	Fild of Study				
1						
2						
3						

Annex III

Research Plan and Project Idea

At first, please explain the detail background of blue ecomony development in your country, including current condition, policy & strategy, and issues and challenges on coastal

fisheries, fisheries production marketing, aquaculture, and etc. It is a part of the

justification for your reaserch plan and project idea.

Afterward, in a part of research plan, please write a brief research plan of your proposed

Master's thesis /Doctor's thesis in about 1000 words. At the selections, this research plan

will be used to evaluate your academic ability and motivation, and to match you with

university courses/supervisors you desired. If plagiarism or fraud is discovered after

selection, the candidate will be disqualified retroactively.

In a part of project idea, referring to important issues in fisheries sector in your country

and your proposed research plan, you will prepare the project idea on the basic

compoments on the format, before coming to Japan. To properly select and prepare your

project idea, please consult it with a director or collegues in your office / section in

advance. Based on your learning and expeience in this program, you will make an original

action plan for the future promotion of small-scale fisheries development in your country as an output of this program. We expect you to make some actions on your action plan in

your ministry and origanisation to pratically apply your knowledge and skills learned in this

program.

You will present your research plan and project idea to JICA officials, proffesors in

universties, and fisheries development experts in the 1st week of the program. Before

coming to Japan, you have to prepare the presentation material of your research plan and

project idea on the MS-PowerPoint on the same items of the following format. Please put

maps, photos, tables, figures, and figures on the presentation to clearly explain your

country situation in blue economy and justifty your reaserch plan for the contribution to

your country.

#### \*Format of Resarch Plan and Project Idea

etc. b. Development policy and strategy of blue economy, coastal fisheries and aquaculture c. Main issues and challenges on blue ecomony, coastal fisheries and aquaculture d. Current on-going or planning programs for blue economy in your country, and e. Other remarks related to blue ecomony in your country  (3) Key Topic for Reasarch Work in the University  According to the background mentioned above and your experience and interest, please identify one specific topic for research plan. Additionally, please explain the reason why you choose it.		in the of the sar end the following the same the				
Please consider one specific title on your research plan  ex) Community-based firsheries management in XXXX region in the contect of Blue Economy  (2) Background of blue economy development in your country Please descibe the details in your country on following items with maps, photos, tables, and figures  a. Current condition of coastal fisheries, fisheries product marketing, aquaculture and etc.  b. Development policy and strategy of blue economy, coastal fisheries and aquaculture c. Main issues and challenges on blue ecomony, coastal fisheries and aquaculture d. Current on-going or planning programs for blue economy in your country, and e. Other remarks related to blue ecomony in your country  (3) Key Topic for Reasarch Work in the University Accoring to the background mentioned above and your experience and interest, please identify one specific topic for research plan. Additionally, please explain the reason why you choose it.  ex) Community-based fisheries management, fisheries product marketing aquaculture, etc.	You Org	Your Country: Organization:				
<ul> <li>(2) Background of blue economy development in your country Please descibe the details in your country on following items with maps, photos, tables, and figures</li> <li>a. Current condition of coastal fisheries, fisheries product marketing, aquaculture and etc.</li> <li>b. Development policy and strategy of blue economy, coastal fisheries and aquaculture c. Main issues and challenges on blue ecomony, coastal fisheries and aquaculture d. Current on-going or planning programs for blue economy in your country, and e. Other remarks related to blue ecomony in your country</li> <li>(3) Key Topic for Reasarch Work in the University According to the background mentioned above and your experience and interest, please identify one specific topic for research plan. Additionally, please explain the reason why you choose it.</li> <li>ex) Community-based fisheries management, fisheries product marketing aquaculture, etc.</li> </ul>	(1)					
Please descibe the details in your country on following items with maps, photos, tables, and figures  a. Current condition of coastal fisheries, fisheries product marketing, aquaculture and etc.  b. Development policy and strategy of blue economy, coastal fisheries and aquaculture c. Main issues and challenges on blue ecomony, coastal fisheries and aquaculture d. Current on-going or planning programs for blue economy in your country, and e. Other remarks related to blue ecomony in your country  (3) Key Topic for Reasarch Work in the University  Accoring to the background mentioned above and your experience and interest, please identify one specific topic for research plan. Additionally, please explain the reason why you choose it.  ex) Community-based fisheries management, fisheries product marketing aquaculture, etc.						
etc. b. Development policy and strategy of blue economy, coastal fisheries and aquaculture c. Main issues and challenges on blue ecomony, coastal fisheries and aquaculture d. Current on-going or planning programs for blue economy in your country, and e. Other remarks related to blue ecomony in your country  (3) Key Topic for Reasarch Work in the University  According to the background mentioned above and your experience and interest, please identify one specific topic for research plan. Additionally, please explain the reason why you choose it.  ex) Community-based fisheries management, fisheries product marketing aquaculture, etc.	(2)	Please descibe the details in your country on following items with maps, photos,				
Accoring to the background mentioned above and your experience and interest, please identify one specific topic for research plan. Additionally, please explain the reason why you choose it.  ex) Community-based fisheries management, fisheries product marketing aquaculture, etc.	b. c. d.	etc.  Development policy and strategy of blue economy, coastal fisheries and aquacultur.  Main issues and challenges on blue ecomony, coastal fisheries and aquaculture.  Current on-going or planning programs for blue economy in your country, and				
aquaculture, etc.	(3)	According to the background mentioned above and your experience and interest, please identify one specific topic for research plan. Additionally, please explain the				
(4) Summary of Research Plan (about 1000 words)						
	(4)	Summary of Research Plan (about 1000 words)				

#### (5) Summary of Project Idea for the Future Small-scale Fisheries Development in Blue Economy

Please consider a future project idea for your country in accordance with your country's situation and issues in fisheries sector and your idea of research plan. The project idea should be arranged and descirbed on the following items.

- a. Title of Proposed Project
- b. Target Area and Target Group
- c. Project Purpose
- d. Expected Outputs for achieving the Project Purpose
- e. Necessary Activities for producing the Outputs
- d. Implementation and partner organizations
- f. Necessary period of the project implementation
- g. Other remarks



### For Your Reference

#### 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 course 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 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.



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.



#### Correspondence

For enquiries and further information, please contact the JICA office or Embassy of Japan.

Further, address correspondence to:

#### JICA Yokohama Center (JICA Yokohama)

Address: 2-3-1 Shinko, Naka-ku, Yokohama 231-0001, Japan

TEL: +81-45-663-3221 FAX: +81-45-663-3265

("81" is the country code for Japan, and "45" is the local area code