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: 202411605J001

Course Period: June 23- July 30, 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.

水産業を核とするブルーエコノミーのための持続可能な小規模漁業(アカデミックコース)

Promote Blue Economy

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

Outline

This course is designed for those who are dedicated to improvement and innovation in the field of fisheries-centered Blue Economy. Persons who aim to engage in research activities will be welcome.

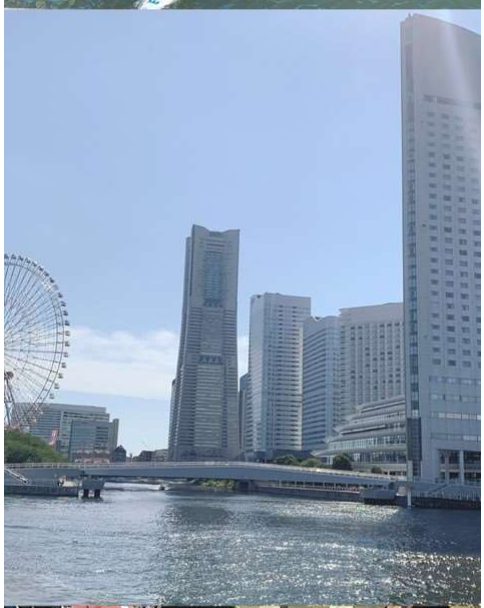
The participants learn about the bule economy in general and its related theories as well as practices in lectures, and then improve their own knowledges and skills through workshops and site visits.

The course will also provide the participants with one-week experiences in a post-graduate institute to interact with researchers and students in fields of concern.

Finally, 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 June 23 to July 30, 2025.
Course Capacity: 6 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

Small-scale fisheries are expected to play a major role in sustainable and effective promotion of the blue economy. The small-scale fisheries in 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. Some of the formulated methods and approaches as well as the history of development have been theorized by research institutes in Japan and can be utilized for improvement in the fisheries sector in developing countries.

Objectives

The participants enhance their capability for planning and implementation of the the action plan to promote blue economy in their countries, which focuses on the imprived roles of small-scale fisheries.

To Whom?

Job Areas and Organizations

This program is designed for those who are dedicated to improvement and innovation in the field of **fisheries and/or fisheries-centered Blue Economy in the public or private sector. Persons who aim to engage in research activities will be welcome.**

***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

Brazil, Cape Verde, Maldives, Palau, Senegal, Seychelles

Based on the Application Documents, participants will be selected within 6 members.

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

When?

Period of Program in Japan

From June 23, 2025
to July 30, 2025

Where?

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
- Q&A Session

Language

English

Commitment to the SDGs

Program Structure

*Tentative Program (*program may change)*

Jun 23	Mon	Arrival to Japan	
Jun 24	Tue	Briefing and Program Orientaion Workshop: Project planning method	Practice
Jun 25	Wed	Workshop: Project planning method (Basic Japanese lesson to be conducted in the evening)	Practice
Jun 26	Thu	Workshop: Project planning method	Practice
Jun 27	Fri	Coastal fisheries management (co-management) in Japan Food value chain (FVC) of fisheries products and 6th industialization	Lecture
Jun 28	Sat	Individual consultation	Discussion
Jun 29	Sun		
Jun 30	Mon	Job/Country report presentation	Presentation

Jul 1	Tue	Visit to wholesale market of fisheries products Development of the Blue Economy	Site visit Lecture
Jul 2	Wed	Roles of fisheries administration and fisheries cooperative association (FCA) Post-harvest treatment and fish processing techniques	Lecture
Jul 3	Thu	Case study in fisheries management by fishers' group and local FCA/ Visit to fishing port	Site visit
Jul 4	Fri	Fish farming (cage culture) and marine aquarium in Numazu, Shizuoka Prefecture	Site visit
Jul 5	Sat		
Jul 6	Sun	Observation of a roadside station (local product sales site) in Sawara, Chiba Prefecture	Site visit
Jul 7	Mon	Visit to fisheries ports, fish markets, and marketing center of local fisheries products in Chosi, Chiba Prefecture Small-scale fish processing factory (fresh/dried fish) Dolphin watching	Site visit
Jul 8	Tue	Fishing method and practice in environmental consideration Women's role in fisheries-centered Blue Economy	Lecture
Jul 9	Wed	Case study in fisheries management and marketing of demersal fish (alfonsino) by local FCA in Katsu-ura, Chiba Prefecture Observation of fish unloading, auction at local fish market and others	Site visit
Jul 10	Thu	Observation of demersal fish unloading in Katsu-ura Visit to marine museum Traditional whaling in coastal waters	Site visit
Jul 11	Fri	Application of Sato-Umi concept (community-based marine environemantal conservation with the utilization of fisheries resources) JICA's strategy in fisheries-centred Blue Economy Introduction of the Agri-Net Program	Lecture
Jul 12	Sat		
Jul 13	Sun	(Transfer)	
Jul 14	Mon	Campus experience at a selected university	Lecture/Practice
Jul 15	Tue	Campus experience at a selected university	Lecture/Practice
Jul 16	Wed	Campus experience at a selected university	Lecture/Practice
Jul 17	Thu	Campus experience at a selected university	Lecture/Practice
Jul 18	Fri	Campus experience at a selected university	Lecture/Practice
Jul 19	Sat	(Returning back to Yokohama)	
Jul 20	Sun		
Jul 21	Mon	Action planning in blue economy development	Practice
Jul 22	Tue	Action planning in blue economy development	Practice
Jul 23	Wed	Action planning in blue economy development	Practice
Jul 24	Thu	Action planning in blue economy development	Practice
Jul 25	Fri	Action planning in blue economy development	Practice
Jul 26	Sat		
Jul 27	Sun		
Jul 28	Mon	Presentation & discussion: Proposed action plans in blue economy	Presentation
Jul 29	Tue	Evaluation meeting & Closing session	
Jul 30	Wed	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

<u>This course is targeting on persons who are dedicated to improvement and innovation in the field of fisheries-centered Blue Economy. Those who aim to engage in research activities in the future will be welcome.</u>

1) Current Duties: be a central or local government official or research institute who are dealing with the 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[1]

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 includes active participation in discussions, which requires high competence

[1] 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 1st, 2024.

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)

This course requires to bring your own PC. 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.

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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) Preference on which institute to get experience in: All candidates are required to find the list of universities and researchers on the Annex I and then choose one the applicant prefers to express it on the Annex II. Please note that JICA will use it to select a suitable institute, but cannot guarantee to match your preference with the result of selection.

(4) **Presentation of project idea:** All candidates are required to submit a report handout for presentation about a future project idea, which includes general information on the fisheries sector in the applicant's country, using the form on the Annex III.

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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 April 28,

2025)

(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, in the process of final selection. **The submitted form (Annex II) will be used to select a suitable institute for the one-week experience in post-gradute institutes.**

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 **not later than May 22, 2025**.

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5. Additional Document to Be Submitted by All Candidate

(1) Preference on the institute during the one-week experience in post-graduate institute. (Please fill the Annex II) --to be submitted by April 28, 2025

(2) Presentation of a future project idea-- to be submitted by April 28, 2025
All candidates are required to submit a future project idea (Please see the **Annex III** for further details.).

Applicants must submit the documents above together with the filled Application Form to JICA overseas office (or the Embassy of Japan). It is used for the selection. Any applicant without these documents will not be qualified.

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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

IC Net Limited
(1) Course Leader: Mr. IINUMA Mitsuo (iinuma@icnet.co.jp)
(2) Course Adviser: Dr. BABA Osamu (baba.osamu@icnet.co.jp)

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

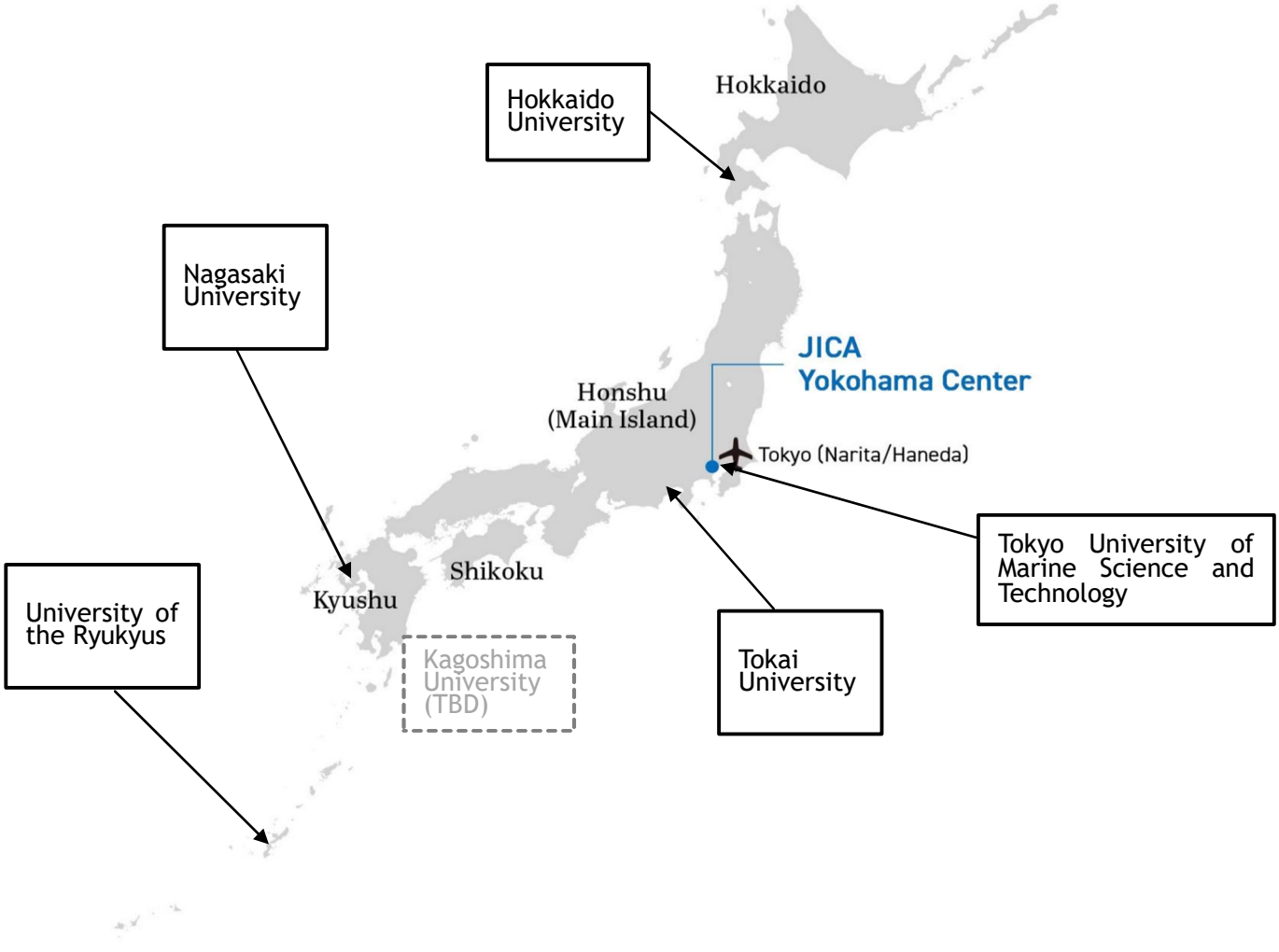
Annex I

JICA will select one institute (university) suitable to each participant for the one-week experience in post-graduate institute. Please see the list below and choose three institutes/fields of specialization/professors.

List of the institutes (universities):

① Hokkaido University
② Tokai University
③ Tokyo University of Marine Science and Technology
④ Nagasaki University
⑤ University of the Ryukyus

Beside these, one university may have intention to accept participants. Appliacnts will be updated as soon as decided.



Name of University		Hokkaido University
Name of School/ Department		**Faculty of Fisheries Sciences, Graduate School of Fisheries Sciences**
①	Professor	**MATSUISHI Takashi Fritz, PhD Professor**
	Field of Specialization	Fisheries Management, Stock Assessment
	Research Theme	I am interested in stock assessment and fisheries management in the data-poor situation, especially small-scale fisheries and multispecies fisheries in tropical areas. Published paper · Status of Southeast Asian fisheries: distinctive characteristics and pathways to sustainable fisheries. Fisheries Science https://rdcu.be/ee7MU · Precision of estimated growth parameters of yellowfin tuna (Thunnus albacares) from length-frequency data estimated by bootstrapping. Fisheries Management and Ecology https://doi.org/10.1111/fme.12781 · Spatial Diversity of Small Pelagic Fisheries in Bali Strait, Indonesia. Journal of Fisheries and Environment https://li01.tci-thaijo.org/index.php/JFE/article/view/257507
②	Professor	**Abe Hiroto, PhD Associate Professor**
	Field of Specialization	Remote Sensing, Ocean Environmet
	Research Theme	I am interested in remote sensing as a tool to monitor the ocean, and the ocean environment itself which is influenced by the atmosphere and influences marine species. Published paper · Multi-month prediction of summertime hypoxia occurrence in the bottom of Funka Bay, Japan, with a focus on the wintertime surface heat flux. Journal of Marine Systems. https://doi.org/10.1016/j.jmarsys.2024.104035 · Intrusion of Coastal Oyashio Water to Funka Bay and Tsugaru Strait occasionally disturbed by Kuroshio-originating warm core ring. Journal of Oceanography. https://doi.org/10.1007/s10872-022-00675-0 · Evaluation of sea-surface salinity observed by Aquarius. Journal of Geophysical Research. https://doi.org/10.1002/2014JC010094
Eligibility Requirements for		The preferred level of English language proficiency is independent language user at an upper-intermediate level (CEFR B2 equivalent or above), and the preferred academic level is top class at a leading university in the country (such as the top five in the

University (GPS etc)	national university ranking).
Web site	https://www2.fish.hokudai.ac.jp/language-english/

Name of University		**Tokai University**
Name of School/ Department		**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, Girls Who Fish
	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 uncertain time: the case of Sakura shrimp fishery, Japan. *Maritime Studies* 20, 115–126. ・Li, Y., & Namikawa, T. *In the Era of Big Change: Essays About Japanese Small-Scale Fisheries*. 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), *Fisheries Cooperative: Kumiai* , 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	Tokai University: https://www.u-tokai.ac.jp/ud-marine-science-and-technology/ Too Big To Ignore Global Partnership: http://toobigtoignore.net/ Too Big To Ignore Japan: https://tbtiglobal.net/tbti-japan-hub/
Note	We will make full use of our university's facilities and networks, such as the Marine Science Museum and research vessels, Too big To Ignore (TBTI) Global Partnership and its Japan Hub, TBTI Japan, to organize a fruitful and meaningful one-week training. TBTI Japan is a small-scale fisheries research network consisting of researchers, governments, fisheries, practitioners, etc. In addition to on-campus training and exchange meetings and workshops with our students, we also plan to visit fishing communities and cooperatives, a fishers' training school, the prefectural government, etc. ☆For more information on our university training: https://www.u-tokai.ac.jp/news-campus/771173/ (in 2023) http://www.u-tokai.ac.jp/news-campus/1085665/ (in 2024)

Name of University		Tokyo University of Marine Science and Technology
Name of School/ Department		**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 Management Course has been opened to educate and train students to become excellent professionals.
	Web	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
Name of School/ Department		**Course of Marine Resourses and Environment**
③	Field of Specialization	Marine Biology Aquatic Environmental Chemistry Environmental System Science Ocean Environment Technology
		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. We teach about and research into advanced scientific technologies for sustainably utilizing oceans and their resources and energy while preserving the environment. Especially, we try to balance the preservation of the ocean environment and development and

		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.
	Web site	https://www.g2.kaiyodai.ac.jp/cmes3/en/index.html
Name of School/ Department		**Course of Marine Policy and Management**
④		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.
	Web	https://www.g2.kaiyodai.ac.jp/cmpm9/English/index.html
Eligibility Requirements for University (GPA etc)		N/A

Name of University		**Nagasaki University**
Name of School/ Department		**Organization for Marine Science and Technology**
①	Professor	**Gregory N. Nishihara, Professor**
	Field of Specialization	Ecophysiology of seaweeds
	Research Theme	Seaweed and seagrass ecosystems are under threat, due to the proliferation of marine debris (i.e., plastic waste) which are affecting the ecosystem function of these ecosystems. Currently our lab can accept any who are interested in how plastic waste affects the ecology of seaweed and seagrass ecosystesm, or the net primary production, biodiversity, and carbon dioxide removal potential of these ecosystems.
Name of School/ Department		**Graduate School of Integrated Science and Technology**
②	Professor	**Dr. Yoshitaka Sakakura, professor / Dr. Chengyan Han, assistant professor**
	Field of Specialization	live feed, larviculture
	Research Theme	Our laboratory focuses on culture and biology of live feeds (phytoplankton and zooplankton) aiming larviculture of marine fishes. Introduction and achievements of our lab can be seen in the following web site: https://www3.cncm.ne.jp/~sakakura/english/index_E.htm
③	Professor	**Dr. Yoshiki Matsushita, professor**
	Field of Specialization	Fishing technology
	Research Theme	Studying sustainable fishing technology. Recent representative publications (examples) ・Matsushita, Y., Onuma, A., Takeshita, C. *et al.* Unmanned surface vehicle (USV) with a fish attraction lamp to assist the purse seine operations. *Fish Sci* **90**, 357–367 (2024). https://doi.org/10.1007/s12562-024-01755-4 ・Takahashi, C., Masumi, S., Maruyama, Y., Uchida, J., Hirose, M., Matsushita, Y. Fish fauna and their occurrence characteristics observed on anchored fish aggregating devices off Goto-Retto Archipelago, Japan. *Fish Sci* (2023).

		https://doi.org/10.1007/s12562-023-01679-5 ・Jung, JM., Hirose, M., Matsushita, Y. Measuring the footprint of fly-dragging gear. *Fish. Res.*, 255, (2022). https://doi.org/10.1016/j.fishres.2022.106465.
④	Professor	**Dr. Mitsuhiko Koyama, Associate Professor**
	Field of Specialization	Microbial engineering, bioinformatics
	Research Theme	Efficient recovery and conversion of ammonia gas into less toxic nitrate are crucial for sustainable nitrogen management in agricultural and industrial systems. We have proposed a novel nitrification system that recovers ammonia gas and transforms it into a nitrogen source for microalgae. This system enables the accumulation of high concentrations of nitrate while maintaining nitrifying bacterial activity and preventing acidification. In our lab, students can participate in experiments on microbial engineering, such as optimizing nitrification conditions, as well as bioinformatics analyses, including next-generation sequencing.
⑤	Professor	**Dr. Hideki Nakayama, Professor**
	Field of Specialization	Environmental Bioengineering, Bioscience
	Research Theme	Technologies for converting waste biomass into bioenergy, ecofeed, and/or compost have been developed. However, they are still not perfect. Downstream of these technologies, unused waste biomass still contains a complex mixture of both organic and inorganic nutrients. The goal of our laboratory is to develop a more sustainable and efficient upcycling technology that converts unused waste biomass into valuable products by utilizing microbial cell factories based on the halophilic bacterium *Halomonas elongata*.
Eligibility Requirements for University (GPS etc)		N/A
Web site		Dr. NISHIHARA, G. N.'s Lab https://nagaremo.jp/en/ Dr. SAKAKUTA, Y.'s Lab https://www3.cncm.ne.jp/~sakakura/english/index_E.htm Dr. MATSUSHITA, Y.'s Lab https://sites.google.com/view/ggk-nagasaki-u/english Dr. KOYAMA, M. 's Lab https://www.koyamalab.com/en Dr. NAKAYAMA, H. 's Lab https://nakayamalab.com

Name of University		**University of the Ryukyus**
Name of School/ Department		**Department of Chemistry, Biology and Marine Science**
①	Professor	**Takashi Nakamura**
	Field of Specialization	Coral Biology
	Research Theme	Comparative study of the characteristics of coral community fluctuations and geographical differences in island systems spread over a wide latitude based on field surveys in the Ryukyu Archipelago.
Name of School/ Department		**Department of Chemistry, Biology and Marine Science, and Organization for Research Promotion**
②	Professor	**Akihiro Takemura**
	Field of Specialization	Fish Biology and Aquaculture
	Research Theme	Perception and utilization of aquatic environments in fish Zhu YF, Negishi R, Fukunaga K, Udagawa S, Shimabukuro A, Takemura A (2023). Activation of the growth–IGF-1 axis, but not appetite, is related to high growth performance in juveniles of the Malabar grouper, *Epinephelus malabaricus*, under isosmotic condition. Comparative Biochemistry and Physiology A, 283: 111456.
Eligibility Requirements for University (GPS etc)		Non
Web site		https://www.u-ryukyu.ac.jp/en/ https://coinext2.skr.u-ryukyu.ac.jp/en/

- **<u>Those who are interested to apply for Long Term Program (Agri-Net) after this course</u>**

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 universites, please make sure the admission requirements (such as GPA scores, English scores, etc) thorough those universites websites.
3) Those who are interested to apply for long team program, please contact to JICA Overseas Office in your country.

Annex Ⅱ

Preference on the institute (university) during the one-week experience

Choose three insitutes from the list on Annex I, and fill the format below.

A suitable one will be selected considering your preference. However, please note that JICA cannot guarantee to match your preference with the result of selection.

Preferred insitutes (universities)		
Check the list on the Annex I and choose three.		
Priority	Name of institute (university)	Fild of study (Professor's name)
1		
2		
3		

Annex Ⅲ

Project Idea

At first, please explain the detail background of blue ecomony development in your country, including current condition, policy, strategy, issues and challenges on coastal fisheries, fisheries production marketing, aquaculture, and etc.

In a part of project idea, referring to important issues in fisheries sector in your country, 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 project idea to JICA officials, proffesors in universties, and fisheries development experts in the 2nd week of the program. Before coming to Japan, you have to prepare the presentation material of your project idea on the MS-PowerPoint format. Please note that maps, photos, tables, and figures on the presentation will be quite useful to clearily explain your country situation in blue economy.

Format of Project Idea

Participant Name:
Your Country:
Organization:
Your Position in the organization:

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. Necesssary 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