



< Attachment 1 >

**JOB DESCRIPTION of World Friends Korea(WFK)
-Advisor & Techno Peace Corps(TPC)**

※ Please complete the form and mark on the box.

| General Information | |
|--|--|
| ■ Expert Title | <input type="checkbox"/> ❶ KOICA advisor <input checked="" type="checkbox"/> ❷ NIPA advisor |
| ■ Area of expertise | Industrial Ecology |
| ■ Job Title | Technical Expert |
| ■ Location, Country | Thailand |
| ■ Number of Expert | 1 |
| ■ Duration | 12 months |
| Detailed information of the requesting organization | |
| <p>■ Organization Name : National Institute of Development Administration</p> <p>- Requesting Department : School of Social Development and Management Strategy</p> <p>- Office Name : Graduate School of Social Development and Strategic Management</p> <p>■ Type of Organization</p> <p> <input type="checkbox"/> Government <input type="checkbox"/> Public organization <input type="checkbox"/> Public corporation <input checked="" type="checkbox"/> University <input type="checkbox"/> Research institution <input type="checkbox"/> Others : </p> <p>■ Working Day/Hours : 5 days/ 6 hours</p> <p>■ Contact Person : Prof. Dr. Siwatt Pongpiachan</p> <p>■ Tel/Fax/E-mail : +66-889041991/+66-27273747/pongpiajun@gmail.com</p> <p>■ Duty Station : School of Social Development and Management Strategy</p> | |



■ **Major activities of the Organization :** *(Please list at least three)*

The major activities of a graduate school of social development and management strategy can vary depending on the specific program and school. However, some common activities may include:

Research: Graduate schools of social development and management strategy often prioritize research as a core component of their programs. This can involve conducting original research, analyzing existing data, or collaborating with partners in the field.

Coursework: Students in graduate programs typically take a combination of required and elective courses in social development and management strategy. These courses may cover topics such as organizational behavior, social policy, and leadership.

Fieldwork and internships: Many graduate programs in social development and management strategy require students to complete fieldwork or internships as part of their curriculum. This can give students real-world experience in social development and management, and help them build networks in the field.

Workshops and seminars: Graduate schools often host workshops and seminars on topics related to social development and management strategy. These events may feature guest speakers, case studies, and hands-on activities.

Professional development: Graduate schools may offer professional development opportunities to help students prepare for careers in social development and management strategy. This could include resume workshops, interview practice sessions, and networking events.

■ **Major activities of the department where WFK – Advisor/TPC will be dispatched**

Here are some major activities of a disaster prevention and management center:

Developing and implementing disaster risk reduction plans and policies.

Conducting risk assessment and mapping to identify vulnerable areas.

Establishing early warning systems to alert people of impending disasters.

Coordinating emergency response activities and mobilizing resources during disasters.

Conducting training and capacity building programs for disaster management personnel.

Promoting community outreach and awareness programs to educate the public on disaster preparedness.

Conducting research and developing new techniques and technologies for disaster prevention and management.

Establishing partnerships with local and international organizations to enhance disaster prevention and management efforts.

Maintaining a centralized database of disasters and their impact to inform future disaster management strategies.

Providing assistance and support to affected communities during and after disasters.



■ Experience of working with WFK – Advisor/TPC

☐ Yes ☒ No

■ If yes, please describe the tasks of WFK – Advisor/TPC

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Description of Tasks

■ The tasks to be undertaken by the WFK – Advisor/TPC will be:

(Describe the overall objectives of the task, why this task is needed and what the expert will do)

- Summary :

Position: Technical Advisor on Industrial Ecology and Industrial Symbiosis

Location: Thailand

Job Summary:

The Technical Advisor on Industrial Ecology and Industrial Symbiosis will be responsible for providing technical support and guidance to public and private sector entities in Thailand on the implementation of industrial ecology and industrial symbiosis practices. This includes assisting businesses in identifying opportunities to improve resource efficiency, reduce waste, and enhance economic and environmental performance through collaboration and innovation.

Key Responsibilities:

- Provide technical guidance on industrial ecology and industrial symbiosis concepts and best practices to public and private sector entities in Thailand.
- Conduct assessments and feasibility studies to identify opportunities for resource efficiency, waste reduction, and economic and environmental benefits through industrial ecology and industrial symbiosis.
- Develop and deliver training programs and capacity building activities for businesses and stakeholders on industrial ecology and industrial symbiosis.
- Provide technical assistance to facilitate the implementation of industrial ecology and industrial symbiosis practices and collaborations among businesses and stakeholders.
- Monitor and evaluate the effectiveness of industrial ecology and industrial symbiosis initiatives and provide recommendations for improvement.

■ Responsibilities of WFK – Advisor/TPC *(Please mark all that apply and type in detail)*

☐ Policy making and Strategic planning *(Only for the Advisor)*

We are seeking a highly motivated and experienced individual for the role of Policy Maker and Strategic Planner in the field of Industrial Ecology and Industrial Symbiosis. In this position, you will be responsible for developing and implementing policies and strategies related to the sustainable use of resources and waste reduction in industries across Thailand.



Key Responsibilities:

- Conduct research and analyze data to identify opportunities for resource conservation and waste reduction in the industrial sector.
- Develop and implement policies and strategies to promote the adoption of industrial ecology and industrial symbiosis practices among industries in Thailand.
- Collaborate with other government agencies, academic institutions, and industry stakeholders to develop and implement policy initiatives.
- Monitor and evaluate the effectiveness of policy measures and revise as necessary.
- Prepare reports, white papers, and other documents for senior management and stakeholders on industrial ecology and industrial symbiosis in Thailand.
- Provide technical assistance and support to industries in implementing industrial ecology and industrial symbiosis practices.
- Stay up-to-date with emerging trends and best practices related to industrial ecology and industrial symbiosis.

□ Technical support

We are seeking a Technical Support professional who is passionate about promoting the principles of industrial ecology and industrial symbiosis in Thailand. In this role, you will be responsible for providing technical assistance and guidance to businesses and organizations in order to help them implement sustainable production processes and reduce their environmental impact. You will work with a team of experts to develop and implement strategies that promote circular economy and waste reduction within the industrial sector.

Responsibilities:

- Provide technical assistance and guidance to businesses and organizations to help them implement sustainable production processes and reduce their environmental impact.
- Collaborate with a team of experts to develop and implement strategies that promote circular economy and waste reduction within the industrial sector.
- Conduct research and analysis on industry trends and technologies related to industrial ecology and industrial symbiosis in Thailand.
- Develop and deliver training programs and workshops to educate businesses and organizations on sustainable production processes and circular economy principles.
- Build and maintain relationships with key stakeholders in the industrial sector in Thailand, including industry associations, government agencies, and NGOs.
- Monitor and evaluate the impact of implemented strategies and provide regular.

□ Research

Our organization is a leading research institution focused on sustainable development. We are committed to advancing the field of industrial ecology and industrial symbiosis in Thailand, and are looking for a talented researcher to join our team.

Responsibilities:

- Conduct research on industrial ecology and industrial symbiosis in Thailand, including analysis of current practices and identification of opportunities for improvement.
- Build partnerships with relevant stakeholders, including businesses, government agencies, and academic institutions, to promote the adoption of sustainable practices.
- Develop and implement research projects focused on advancing the field of industrial ecology and industrial symbiosis in Thailand.
- Communicate research findings through publications, presentations, and other



channels.

- Collaborate with other members of the research team to support the overall mission of the organization.

Requirements:

- PhD or Master's degree in an environmental science, engineering, or related field.
- Strong background in industrial ecology and industrial symbiosis research.
- Experience conducting research projects, including data collection, analysis, and interpretation.
- Excellent communication skills, including the ability to communicate complex ideas to a variety of audiences.

☐ **Lecturing**

We are seeking a knowledgeable and experienced Lecturer to join our team of educators, focusing on topics related to sustainable development, industrial ecology, and industrial symbiosis. The ideal candidate will have a passion for teaching and research, as well as a strong commitment to advancing the field of sustainability.

Key Responsibilities:

- Develop and deliver high-quality lectures and course materials related to sustainable development, industrial ecology, and industrial symbiosis.
- Supervise and mentor students pursuing degrees in sustainable development, environmental sciences, and related fields.
- Conduct research and publish academic papers related to sustainable development, industrial ecology, and industrial symbiosis.
- Collaborate with other educators and researchers to develop projects related to sustainable development and environmental conservation.
- Participate in academic committees and contribute to the development of sustainable development curricula and programs.

Requirements:

- Bachelor's or Master's degree in sustainable development, environmental sciences, or a related field.
- A minimum of 3 years of experience in higher education teaching and research.
- A strong publication record.

☐ **Training of local staff**

Job Overview:

Our organization is seeking a skilled and passionate Sustainable Development Trainer to train and educate local staff on sustainable development, industrial ecology, and industrial symbiosis. The Sustainable Development Trainer will be responsible for designing and implementing training programs that empower local staff to incorporate sustainable practices and principles in their day-to-day work activities.

Key Responsibilities:

- Develop training programs on sustainable development, industrial ecology, and industrial symbiosis.
- Create engaging and interactive training materials, including presentations, case studies, and hands-on activities.



- Deliver training sessions to local staff and ensure that they understand and apply sustainable development principles.
- Provide ongoing coaching and support to local staff to help them implement sustainable practices in their work activities.
- Monitor and evaluate the effectiveness of the training programs and make improvements as necessary.
- Collaborate with other departments within the organization to integrate sustainable practices into their work activities.
- Stay up-to-date with the latest trends and developments in sustainable development, industrial ecology, and industrial symbiosis.

Qualifications:

- Bachelor's or Master's degree in sustainable development, environmental science, industrial ecology, or a related field.
- Strong knowledge of sustainable development principles and practices.
- Familiarity with industrial ecology and industrial symbiosis concepts.
- Experience in designing and delivering training programs on sustainable development.
- Excellent communication and interpersonal skills.
- Ability to work collaboratively with staff at all levels of the organization.
- Strong problem-solving skills and attention to detail.
- Ability to work independently and manage multiple priorities.

☐ **Other**

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Expected Results/Output

■ **Expected results/output of the tasks by the WFK – Advisor/TPC include:**

The expected results/output of the tasks by the advisor of sustainable development, industrial ecology, and industrial symbiosis may vary depending on the specific goals and objectives of the organization or project. However, some possible results and outputs could include:

Improved understanding and knowledge of sustainable development, industrial ecology, and industrial symbiosis principles and practices among local staff.

Implementation of sustainable practices and principles in day-to-day work activities of local staff.

Increased efficiency and effectiveness of industrial processes through the application of industrial ecology and industrial symbiosis concepts.

Reduction in waste, emissions, and resource consumption in industrial processes.

Development of new sustainable products or services that meet customer demands while reducing environmental impact.

Identification and implementation of cost-saving opportunities through the adoption of sustainable practices.

Integration of sustainable development principles into business strategies and decision-making processes.

Improved reputation and brand recognition among stakeholders and customers as a result of sustainable practices.



Increased engagement and motivation among staff due to their involvement in sustainable development initiatives.

Reporting and documentation of progress and impact towards achieving sustainable development goals and targets

Required(Preferred) qualifications of WFK – Advisor/TPC

(List the minimum essential qualifications required for the experts to successfully carry out this task)

■ Gender

☐ Male ☐ Female ☒ No preference

■ Educational Background

☐ Bachelor's Degree ☐ Master's Degree ☒ Doctor's Degree

- PhD in Chemical engineering or Civil engineering

■ Required Work Experience*(Specify work experience required for the experts)*

The required work experience for a position in sustainable development, industrial ecology, and industrial symbiosis may vary depending on the specific job responsibilities and requirements. However, here are some possible examples of work experience that may be required for this type of position:

At least 3-5 years of experience working in the field of sustainable development, industrial ecology, or industrial symbiosis.

Previous experience developing and delivering training programs on sustainable development, industrial ecology, or industrial symbiosis.

Experience in project management, including planning, implementation, and evaluation of sustainability initiatives.

Knowledge of sustainability frameworks, such as the United Nations Sustainable Development Goals (SDGs), and their application in business settings.

Familiarity with sustainability reporting and metrics, such as the Global Reporting Initiative (GRI) standards.

Experience in conducting environmental impact assessments or life cycle assessments.

Knowledge of environmental regulations and standards, such as ISO 14001 and EMAS.

Strong analytical and problem-solving skills to identify sustainability challenges and opportunities and develop appropriate solutions.

Experience in stakeholder engagement and collaboration, including working with diverse groups of stakeholders such as suppliers, customers, and community organizations.

Experience in sustainability communication, including developing and delivering presentations, reports, and other communications materials to different audiences.

These are just some possible examples of the required work experience for a position in sustainable development, industrial ecology, and industrial symbiosis. The specific requirements may vary depending on the job description and the organization's goals and objectives. description and the organization's goals and objectives.



■ **Language : English**

(Official business language will be English. If your organization requires the use of other languages, please provide reasons)

- **Reasons :**

■ **Other Requirements**(Identify desired skills or qualifications for the task)

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Description of the Workplace

■ **Location of the workplace**

- 10 km from the capital city
- 1 hours by Bangkok Train System
(transportation)

■ **Information on the co-worker who will work closely with the WFK-Advisor**

- Full Name (Mr./Ms.) : **Siwatt Pongpiachan**

- Position/Work area : **Professor/Environmental chemistry**

- Tel/E-mail : **+66889041991/pongpiapun@gmail.com**

- English Language Skill :
☐ Basic ☐ Intermediate ☒ Advanced

■ **Administrative and financial arrangements to be provided by your organization for the WFK-Advisor/TPC**
(Please mark on the box)

| Items | Available | Not available |
|----------------|--|-------------------------------------|
| Housing | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Transportation | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Others | <input checked="" type="checkbox"/> PC <input checked="" type="checkbox"/> Printer <input checked="" type="checkbox"/> Internet access <input type="checkbox"/> Phone <input checked="" type="checkbox"/> Air Conditioning <input type="checkbox"/> Heater <input checked="" type="checkbox"/> Desk <input checked="" type="checkbox"/> Chair <input checked="" type="checkbox"/> Bookshelf <input type="checkbox"/> Others() | |

■ **Other information that may help the WFK-Advisor/TPC adapt to the local environment**

(Living conditions, weather, allowance, other comments, etc.)

■ **Photos** (if possible)

* Once the experts are selected based on your request, you are required to cooperate with the Korean implementing agencies by providing the necessary administrative procedures such as visa, acceptance letter, etc. Without your cooperation, expert dispatching will not be available and/or will be cancelled. Thank you for your cooperation.



Ministry of Foreign Affairs
Republic of Korea



9 May 2023

(Date of filling out the form)

Prof. Dr. Tippawan Lorsuwannarat

(Name of the person in charge)

President

(Position of the person)



Signature with official stamp

