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Agence internationale de l'énergie atomique

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National Liaison Officers

In reply please refer to: **TN-RAS0081-2003843**

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2020-07-16

Subject: Virtual Event- KOICA-KAERI-WCI-IAEA Joint Training Course on Establishment of Long-Term Management Plan by Strengthening Capacity for Diagnostic and Therapeutic Radioisotopes and Radiopharmaceutical Application, from 2 to 13 November 2020

Dear National Liaison Officer,

I am pleased to inform you that the International Atomic Energy Agency (IAEA) is organizing the above event under the IAEA technical cooperation project RAS0081, "Supporting Human Resource Development and Nuclear Technology Including Emerging Needs".

The purpose of the event is to provide support for establishing a long-term management plan and guidelines for the target countries for diagnostic and therapeutic radioisotopes and radiopharmaceuticals.

The attached Information Sheet provides further details, including technical and administrative aspects of the event. Selection of participants will be in accordance with IAEA procedures. Member States are strongly encouraged to identify suitable women participants.

We would appreciate receiving your country's nominations by **10 September 2020** through the IAEA's InTouch+ platform (<https://Intouchplus.iaea.org>). Should this not be possible, applicants may download the Nomination Form for the course from the [IAEA's webpage](#). Completed forms must be endorsed by the relevant government authority and may be sent to the IAEA, preferably by email to Official Mail - IAEA Mail address Official.Mail@iaea.org, with copy to Mr Sinh Van Hoang V.Hoang@iaea.org. Please be advised that late nominations or replacements of participants after the closing date for nominations will not be accepted.

We look forward to receiving your early response.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Sinh Van Hoang", is enclosed within a dashed rectangular border. The signature is written in a cursive style with a prominent horizontal stroke at the top.

Sinh Van Hoang
Programme Management Officer
Division for Asia and the Pacific
Department of Technical Cooperation

Enclosure: Information Sheet



Virtual Event- KOICA-KAERI-WCI-IAEA Joint Training Course on Establishment of Long-Term Management Plan by Strengthening Capacity for Diagnostic and Therapeutic Radioisotopes and Radiopharmaceutical Application

Hosted by

The International Atomic Energy Agency in cooperation with
the Government of the Republic of Korea

through the

Korea Atomic Energy Research Institute (KAERI) and
World Council on Isotopes (WCI)

2 to 13 November 2020

Ref. No.: TN-RAS0018-2003843

Information Sheet

Purpose

The purpose of the event is to provide support for establishing a long-term management plan and guidelines for the target countries for diagnostic and therapeutic radioisotopes and radiopharmaceuticals.

Working Language(s)

The working language(s) of the event will be English.

Deadline for Nominations

Nominations received after 10 September 2020 will not be considered.

Project Background

The joint training programme will be carried out for three consecutive years from 2019 to 2021 and will take place over two weeks in 2019 and 2020 and one week in 2021. The format of the programme for 2019 and 2020 will be based on lectures, discussions, practical activities, field trips, country reports, and action plans. However, COVID-19 has led to changing the format of this programme for 2020 into e-learning. Thus, the format will be based on lectures, Q&A, country reports and action plan activities.

The outputs of this programme for two consecutive years (2019 and 2020) will be reviewed in 2021 through country presentations and reports, consultation from experts, and field trips. The field trips will also be included in the 2021 programme as part of efforts to strengthen and support the radioisotope production and radiopharmaceutical program of the participating target countries.

In the radioisotope and radiopharmaceutical fields, the 2019 programme covered technical issues mainly focusing on staff at R&D centres, academic or medical institutions, whereas the 2020 programme focuses on policies and regulations targeted for managerial or directorial level public officials in charge of the enactment of policies or regulations in participating countries. In addition, those who participated in the programme from 2019 to 2020 should be participating in the programme planned for 2021.

Therefore, the nomination of the participants for the 2020 training programme will mainly come from the countries that participated in the KOICA-IAEA Joint Training Programme on the Establishment of the Long Term Management Plan by Strengthening the Capacity for Diagnostic and Therapeutic Radioisotopes and Radiopharmaceutical Application held during 23 September - 4 October, 2019 in Seoul, Korea.

Scope and Nature

The e-learning course will take place over two weeks, including a kick-off meeting, closing meeting, lectures, Q&A, country report activity and action plan activity. The lectures will cover the following topics:

- Module 1: Medical radioisotope production and quality control
- Module 2: Radiopharmaceuticals
- Module 3: Regulations for clinical trial and marketing authorization

Participation

One person per the target countries.

Participants' Qualifications and Experience

Participants should be qualified or experienced in the following:

- Be proficient in English with good listening comprehension and communication skills in order to actively participate in the joint training programme without difficulty.
- Be managerial or directorial level public officials in charge of the enactment of policies or regulations in the radiochemistry or radiopharmaceutical fields.
- Possess at least a bachelor's degree in science/engineering; management qualifications will be an advantage.

Priority will be given to the participants who have over three years' experience in the managerial or directorial level mentioned above.

Application Procedure

Candidates wishing to apply for this event should follow the steps below:

1. Access the InTouch+ home page (<https://intouchplus.iaea.org>) using the candidate's existing Nucleus username and password. If the candidate is not a registered Nucleus user, she/he must create a Nucleus account (<https://websso.iaea.org/IM/UserRegistrationPage.aspx>) before proceeding with the event application process below.
2. On the InTouch + platform, the candidate must:

- a. Finalize or update her/his personal details, provide sufficient information to establish the required qualifications regarding education, language skills and work experience ('Profile' tab) and upload relevant supporting documents;
- b. Search for the relevant technical cooperation event (EVT2003843) under the 'My Eligible Events' tab, answer the mandatory questions and lastly submit the application to the required authority.

NOTE: Completed applications need to be approved by the relevant national authority, i.e. the National Liaison Office, and submitted to the IAEA through the established official channels by the provided designation deadline.

The final selection of course participants will be held jointly by the IAEA and communicated to KOICA, KAERI and WCI.

For additional support on how to apply for an event, please refer to the [InTouch+ Help page](#). Any issues or queries related to InTouch+ can be addressed to InTouchPlus.Contact-Point@iaea.org.

Should online application submission not be possible, candidates may download the nomination form for the training course from the [IAEA website](#).

Administrative and Financial Arrangements

Nominating authorities will be informed in due course of the names of the candidates who have been selected and will at that time be informed of the procedure to be followed with regard to administrative and financial matters.

The participants should cover all expenses (e.g., web camera, headset, software, computer, Internet connection, studio rental, etc.) necessary to participate in the e-learning course. In addition, the organizers do not provide the participants with any auxiliary devices (e.g., CD, USB flash drive, etc.). It is clearly understood that each organization, in nominating the participants, undertakes the responsibility for such coverage.

It is recommended that participants prepare a place (e.g. office, house, etc.) for the e-learning course, including a web camera, headset, software, computer, Internet connection, etc.

Disclaimer of Liability

The organizers of the event do not accept liability for the payment of any cost or compensation that may arise from damage to or loss of personal property, or from illness, injury, disability or death of a participant while he/she is travelling to and from or attending the course, and it is clearly understood that each Government, in approving his/her participation, undertakes responsibility for such coverage. Governments would be well advised to take out insurance against these risks.

Note for female participants

Any woman engaged by the IAEA for work or training should notify the IAEA on becoming aware that she is pregnant.

The Board of Governors of the IAEA approved new International Basic Safety Standards for Protection against Ionizing Radiation and for the Safety of Radiation Sources. The Standards deal specifically with the occupational exposure conditions of female workers by requiring, inter alia, that a female worker should, on becoming aware that she is pregnant, notify her employer in order that her working conditions may be modified, if necessary. This notification shall not be considered a reason to exclude her from work; however, her working conditions, with respect to occupational exposure shall be adapted with a view to ensuring that her embryo or foetus be afforded the same broad level of protection as required for members of the public.

Additional Information

The e-learning is a type of learning that utilizes electronic technologies to access an educational curriculum outside of a traditional classroom. The definition of e-learning is closely linked to courses that are specifically delivered via the Internet to somewhere other than the classroom where the professor is teaching. It is not a course delivered via a DVD or CD-ROM, videotape, or television channel. It is interactive, in that the e-learning participants can also communicate with their tutor or other students in their desired places. Sometimes the e-learning participants can “electronically” raise their hand and interact in real time, or the participants listen to a lecture that has been pre-recorded. There is always a tutor interacting/communicating with the e-learning participants and grading their participation, their country reports, and their action plan reports.

Before taking the e-learning course, all participants should logon into the e-learning platform of Asian Network for Education in Nuclear Technology (ANENT) Regional Learning Management System (RLMS) (<http://lms.anent.online>) and register as a “Learner”. The participants will be provided the purpose and content of each subject in consecutive order when they “click” the subject.

After registering, the administrator will permit the participants’ registration as a “Learner”, and the participants should check the learning environment to take the e-learning (e.g. Internet connection, web camera, headset, etc.).

After taking a subject in the e-learning, all participants can or should participate in the following activities:

- Q&A- The participants can post their question about the content in a separate section of the ANENT RLMS. After posting the question, the tutor will answer the question.
- Country Report/Action plan- The facilitator will post the guidelines to describe the country report and action plan activities in the ANENT RLMS. All participants are requested to develop their country report and action plan in a MS Word and PowerPoint format and upload it on the platform. The facilitators and radiopharmaceutical professionals will give their comments regarding it.
- Kick-off and Closing Meeting- The Kick-off and Closing Meeting are similar to an opening and wrap-up ceremony, respectively, in the classroom training. Before starting this e-learning course, all participants will be provided the exact time to participate in the opening and wrap-up ceremony through e-mail.

The training course is considered to be completed when:

- Attendance (30%)
- Country report (30%)
- Action plan report (40%)

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Appendix

Content of the training course:

a. Lectures

Module 1: Medical radioisotope production & quality control

- Medical RI production with quality control: Reactors
- Medical RI production with quality control: Accelerator/Cyclotron
- RI production: Generators
- Current global scenario of RI production: Demands, supply, and major stakeholders
- Emerging medical RI, envisaged demands, and current strategies for production
- Updates on RI: Related agencies, organizations, and their reports

Module 2: Radiopharmaceuticals

- Introduction to radiopharmaceutical chemistry
- Production of radiopharmaceuticals: Facility design parameters complying with cGMP and radiation protection guidelines
- GMP guidance: Available documents
- New trends & essential components for radiopharmaceutical research (including preclinical studies)
- Ways forward for translation from bench to bed
- EU radiopharmaceuticals' GMP experience
- US radiopharmaceuticals' GMP experience
- Japan radiopharmaceuticals' GMP experience
- Korea radiopharmaceuticals' GMP experience

Module 3: Regulation for clinical trial and marketing authorization

- Basic and process of new drug approval (or marketing authorization)
- GCP implemented clinical trials
- Hospital compounding experience in Korea

b. Country report and action plan