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الوكالة الدولية للطاقة الذرية

国际原子能机构

International Atomic Energy Agency

Agence internationale de l'énergie atomique

Международное агентство по атомной энергии

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The Secretariat of the International Atomic Energy Agency (IAEA) presents its compliments to the IAEA's Member States and has the honour to draw their attention to the **KOICA-KAERI-IAEA e-Learning Course on Radiation Technology and Processing with Electron Accelerators: Low, Middle and High Energy Electron Accelerator** (hereinafter referred to as "event") to be held virtually via the ANENT RLMS learning platform from **27 September to 8 October 2021**.

The purpose of the event is to transfer to learners the principles and application of an electron accelerator, except for non-destructive inspection using an electron accelerator. This e-learning will focus on industrial processing using an electron accelerator in the field of industrial production as well.

The attached Information Sheet provides further details of the event.

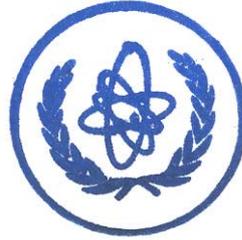
The event will be held in English.

Member States are invited to designate one or more participants to represent the Government at this event. Member States are strongly encouraged to identify suitable women participants.

Designations should be submitted to the IAEA through the competent national authority (Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority) not later than **23 July 2021** using the attached Participation Form (Form A). Completed and authorized Participation Forms should be sent either by email to: [Official.Mail@iaea.org](mailto:Official.Mail@iaea.org) or by fax to: +43 1 26007 (no hard copies needed). Copies should be sent by email to the Scientific Secretary of the event, Mr João Alberto Osso Júnior, Division of Physical and Chemical Sciences, Department of Nuclear Sciences and Applications (Email: [J.A.Osso-Junior@iaea.org](mailto:J.A.Osso-Junior@iaea.org)), and to the Administrative Secretary, Ms Suzana Vljakovic Bosnjak (Email: [S.Vljakovic-Bosnjak@iaea.org](mailto:S.Vljakovic-Bosnjak@iaea.org)). The Scientific Secretary of the event will liaise with the participants directly concerning further arrangements, as appropriate, once official designations have been received.

The IAEA takes no responsibility for, and the provider of the virtual meeting services has represented and warranted that the Services shall not contain, and that no end user shall receive from the software used to hold the virtual meeting, any virus, worm, trap door, back door, timer, clock, counter or other limiting routine, instruction or design, or other malicious, illicit or similar unrequested code, including surveillance software or routines which may, or is designed to, permit access by any person, or on its own, to erase, or otherwise harm or modify any data or any system, server, facility or other infrastructure of any end user (collectively, a "Disabling Code").

The Secretariat of the International Atomic Energy Agency avails itself of this opportunity to renew to the IAEA's Member States the assurances of its highest consideration.



2021-07-08

Enclosures:

Information Sheet  
Participation Form (Form A)



# **KOICA-KAERI-IAEA e-Learning Course on Radiation Technology and Processing with Electron Accelerators: Low, Middle and High Energy Electron Accelerator**

**Virtual Event**

**27 September - 8 October 2021**

**Ref. No.: EVT2101965**

## **Information Sheet**

### **Introduction**

The main R&D activities in the radiation technology field cover high-polymer processing, waste-water or contaminated-air treatment, sterilization, etc., using gamma rays released by the electron accelerator. The activities require learners to understand crucial knowledge and skills in the natural science and engineering fields such as high-polymer engineering, chemical engineering, material engineering, material engineering, etc. The purpose of this e-learning will be to transfer to learners the principles and application of an electron accelerator except for non-destructive inspection using an electron accelerator. This e-learning will focus on industrial processing using an electron accelerator in the area of industrial production as well. In addition, learners will participate in on-line practice activities.

## **Objectives**

The purpose of the event is to transfer to learners the principles and application of an electron accelerator, except for non-destructive inspection using an electron accelerator. This e-learning will focus on industrial processing using an electron accelerator in the field of industrial production as well.

## **Target Audience**

IAEA Member States.

One to two persons per country from different areas: Governmental authorities, R&D institutions, users of radiation technologies, and regulatory bodies.

The applicants should be employed by governmental authorities, organizations, R&D institutes, or regulatory bodies involved in radiation and nuclear technologies. Applicants should preferably be senior level employees involved in policy making and/or regulations and must have prior experience in radiation technology and applications. Applicants should have a good understanding of the English language and should not be older than 50 years of age.

## **Working Language(s)**

English

## **Structure**

The e-learning course will take place over 2 weeks, including a kick-off meeting, closing meeting, lectures, Q&A, quizzes, country report activity, and action plan activity.

The participants will be provided with the purposes, contents, and quizzes about each subject in consecutive order when the participants “click” the subject in the e-learning website on the learning platform (<http://lms.anent.online>). The purposes, contents, and quizzes help participants achieve the purpose of this e-learning course in the electron accelerator field. In particular, the purpose of these quizzes includes checking the extent to which the participants understand the contents of each subject.

Before taking the e-learning, all participants should log into the ANENT RLMS (<http://lms.anent.online>) and register as a “Learner”. 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 an e-learning course, all participants can or should participate in the following activities:

- **Q&A**  
The participants can post their question about the topic in a separate section of the ANENT RLMS. After posting the question, the tutor will answer the question.
- **Quiz**  
As soon as they receive the contents of each subject, all participants will be provided a quiz to check the extent to which they understand the contents of each subject.
- **Country Report/Action Plan**  
The administrator or tutor will post guidelines to describe the country report and action plan activities in the ANENT RLMS. All participants are requested to establish and upload their country report and action plan report in MS Word and PowerPoint format by the deadline. The administrator, tutor, and professionals will give their comments regarding it.
- **Kick-off and Closing Meetings**  
The kick-off and closing meetings are similar to an opening ceremony and wrap-up ceremony, respectively, for the classroom training. Before starting this e-learning course, all participants will be provided the precise time to participate in the opening and wrap-up ceremonies through e-mail.

**Criterion of Completion:** Attendance (30%), country report (30%), and action plan report (40%).

## Participation and Registration

All persons wishing to participate in the event have to be designated by an IAEA Member State or should be members of organizations that have been invited to attend.

In order to be designated by an IAEA Member State, participants are requested to send the **Participation Form (Form A)** to their competent national authority (e.g. Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority) for onward transmission to the IAEA by **23 July 2021**. Participants who are members of an organization invited to attend are requested to send the **Participation Form (Form A)** through their organization to the IAEA by above deadline.

The final selection of course participants (10 participants) will be held jointly with the IAEA and communicated to KOICA and KAERI.

Selected participants will be informed in due course on the procedures to be followed with regard to administrative and financial matters.

Participants are hereby informed that the personal data they submit will be processed in line with the [Agency's Personal Data and Privacy Policy](#) and is collected solely for the purpose(s) of reviewing and assessing the application and to complete logistical arrangements where required. Further information can be found in the [Data Processing Notice](#) concerning IAEA InTouch+ platform.

## Additional Information

**Organizers:** The Korea International Cooperation Agency (KOICA), the Korea Atomic Energy Research Institute (KAERI) and the International Atomic Energy Agency (IAEA)

**KOICA Program Manager:** Mr Jeong-Wook Lee | Programme Manager  
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**Learning Platform:** Asian Network for Education in Nuclear Technology (ANENT) Regional Learning Management System (RLMS) (<http://lms.anent.online>)

*Note: KOICA may designate other software instead of ANENT RLMS.*

**Administrator:** Mr Hyeon-Jin Kim | Senior Researcher  
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**Role of Administrator:** The role of the administrator is to manage the e-learning course, inspect or check the participants' learning schedule, and implement a reaction evaluation. The reaction evaluation is closely linked to the degree to which participants find the training favourable, engaging, and relevant to their jobs.

**Role of Tutor:** The role of the tutor is to respond to the participants' questions, promote discussions closely linked to the e-learning course, make quizzes about each subject in the e-learning course, and provide guidance and comments about the participants' country report activity and action plan activity in the e-learning course.

**Place of Learning:** It is strongly recommended that each participant prepare a place to be absorbed in his/her e-learning in the country (e.g. office, house, etc.). The place should include equipment (e.g., web camera, headset, software, computer, Internet connection, 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 (Compact Disc), USB flash drive, etc.).

**Type of Learning:** The type of learning is based on e-learning. E-learning is a type of learning that utilizes electronic technologies to access 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 or in their respective locations. Sometimes the e-learning participants can "electronically" raise their hand and interact in real time, or they may listen to a lecture that was pre-recorded. There is always a tutor interacting/communicating with the e-learning participants and grading their participation, country reports, and action plan reports.

**Participation in Technical Visits:** There may be a selection of excellent graders (*within 5 participants*), among the participants in the e-learning, who will have a chance to go to Korea for a 1-week Technical Visit to study radiation technology and processing with electron accelerators. All costs (e.g., air flight ticket, stipend, accommodation, etc.) will be supported by KOICA. However, global pandemic situations such as COVID-19 can change or cancel plans for this 1-week Technical Visit.

# IAEA Contacts

## Scientific Secretary

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## Administrative Secretary

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Subsequent correspondence on scientific matters should be sent to the Scientific Secretary/Secretaries and correspondence on other matters related to the event to the Administrative Secretary.

# Participation Form

## KOICA-KAERI-IAEA e-Learning Course on Radiation Technology and Processing with Electron Accelerators: Low, Middle and High Energy Electron Accelerator

### Virtual Event

**27 September – 8 October 2021**

To be completed by the participant and sent to the competent national authority (e.g. Ministry of Foreign Affairs, Permanent Mission to the IAEA, or National Atomic Energy Authority) of his/her country for subsequent transmission to the International Atomic Energy Agency (IAEA) either by email to: [Official.Mail@iaea.org](mailto:Official.Mail@iaea.org) or by fax to: +43 1 26007 (no hard copies needed). Please also send a copy by email to the Scientific Secretary [J.A.Osso-Junior@iaea.org](mailto:J.A.Osso-Junior@iaea.org) and to the Administrative Secretary [S.Vlajkovic-Bosnjak@iaea.org](mailto:S.Vlajkovic-Bosnjak@iaea.org).

**Deadline for receipt by IAEA through official channels: 23 July 2021**

Family name(s): (same as in passport)	First name(s): (same as in passport)	Mr/Ms
Institution:		
Full address:		
Tel. (Fax):		
Email:		
Nationality:	Representing following Member State/non-Member State/entity or invited organization:	
If/as applicable:		
Do you intend to submit a paper?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Would you prefer to present your paper as a poster?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Title:		

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