



TC Regional Workshop on the Development and Implementation of Sustainable Academic Programs for Medical Physics Education

Hosted by

The Government of Cyprus

through the

State Health Services Organisation
Nicosia, Cyprus

4-8 November 2024

Ref. No.: ME-RER6042-EVT2403270

Information Sheet

Purpose

The purpose of the workshop is to discuss how to develop and sustain a Postgraduate Medical Physics Academic Programme aligned with the IAEA guidelines outlined in the IAEA Publication "Postgraduate Medical Physics Academic Programmes", TCS 56 (Rev. 1).

Working Language(s)

The working language of the event will be English.

Deadline for Nominations

Nominations received after **19 August 2024** will not be considered.

Scope and Nature

The workshop will comprise didactic lectures, discussions and practical exercises aiming at improving participants' knowledge and skills needed to develop and sustain a Postgraduate Medical Physics Academic Programmes. Specifically, the workshop has four main objectives:

- 1) Dissemination of knowledge pertaining to the IAEA Publication TCS-56 (Rev. 1) implementation prerequisites;
- 2) Familiarization of participants with the Application, Design, Development, Implementation, and Evaluation (ADDIE) cycle for the design and construction of medical physics academic courses;
- 3) Familiarization of participants with the theory and practical methodologies of adult training; and,
- 4) Implementation of the acquired knowledge to develop guidance material for the institutions embarking on this exercise.

Relevant to the objectives of the course, upon completion of the program, participants should be proficient in:

- Developing the framework of a postgraduate academic program on medical physics and articulating the components and structure tailored to the existing infrastructures and specific needs;
- Designing medical physics modules and developing training objectives, requirements, and layout;
- Implementing and delivering content of medical physics modules and assembling suitable material and identifying relevant methodologies; and
- Developing guidance material for institutions initiated or in the process of initiating a Postgraduate Medical Physics Academic Programmes.

Background Information

Development of new technology in different modalities in diagnostic and interventional radiology has led to the need for greater involvement of medical physicists in clinical practice. This has been recognized in the International Basic Safety Standards GSR Part 3, according to which a medical physicist working in a clinical environment is “a health professional, with specialist education and training in the concepts and techniques of applying physics in medicine, and competent to practice independently in one or more of the subfields (specialties) of medical physics”. Among specialties involving the use of ionizing radiation in medical exposure, diagnostic radiology physics includes diagnostic and interventional radiology procedures.

The Agency publication, Roles and Responsibilities, and Education and Training Requirements for Clinically Qualified Medical Physicists, IAEA Human Health Series No. 25, defines criteria for education and training of Clinically Qualified Medical Physicist (CQMP), including their roles and responsibilities. Similar definition for the “medical physics expert” is given by Council Directive 2013/59/Euratom. Additionally, the IAEA has published guidelines to support Member States' efforts in establishing medical physics academic programmes, clinical training, and certification of CQMP.

The project RER6042, based on results and achievements of previous regional projects, has the main objective to improve quality and safety in diagnostic and interventional radiology in the region by building the capacity of medical physicists through increase of their knowledge, skills, and competences. Through multiple activities, the project fosters the establishment of the medical physics profession in alignment with international best practices and Agency standards and guidance.

Participation

The meeting is open to 25 participants from TCEU Member States participating in the projects: RER6042 “Building Capacities of Medical Physicists in Diagnostic Radiology to Support the Establishment of Quality Management Systems”.

Each country is invited to nominate **two participants** who must match the profile described in the corresponding paragraph, indicating the order of priority.

Participants’ Qualifications and Experience

The workshop would have the greatest impact for Member States (i) with newly developed, (ii) in the process of developing or (iii) with documented intention to develop and maintain sustainable academic postgraduate programme to cover their emerging needs, relevant to medical physics staffing.

The workshop is not relevant to Member States either in more advanced or premature medical physics education status to the one described.

The target countries are: Albania, Armenia, Azerbaijan, Belarus, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Estonia, Georgia, Greece, Hungary, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, North Macedonia, Malta, Montenegro, Poland, Portugal, Republic of Moldova, Romania, Russian Federation, Serbia, Slovakia, Slovenia, Tajikistan, Turkey, Turkmenistan, Ukraine and Uzbekistan.

Noting that the scope of the workshop is related to the development and operation of a sustainable Postgraduate Medical Physics Academic Programmes, ideally participants should be:

- a. Senior medical physicists with clinical experience, with confirmed/documented involvement in the function or design of the Medical Physics educational programmes.
- b. Academic physics/medical physics staff member, with confirmed/documented involvement in the function or design of the Medical Physics educational programmes.
- c. A medical physicist representing a medical physics professional society.
- d. Other professional with documented role relevant to medical physics education.

As the workshop will be conducted in English, participants should have sufficient proficiency to deliver and follow lectures and express themselves in this language without difficulty.

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. Download and complete the [Designation of Beneficiary and Emergency Contact Form](#), and upload to InTouch+ ('Profile' tab under the personal section) specifying the document name. If already provided, kindly discard this step; and
 - c. Search for the relevant technical cooperation event (**EVT2403270**) 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.

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 meeting from the IAEA website and submit their applications to their National Authorities. The nomination forms once fully approved can be submitted by e-mail in a PDF format through the official channels via the IAEA Official E-Mail (Official.Mail@iaea.org) with copy to Mr Katukhov (A.Katukhov@iaea.org) and Mr Bru (Y.Bru@iaea.org).

NOTE: A medical certificate signed by a registered medical practitioner dated not more than four months prior to starting date of the event must be submitted by candidates when applying for candidates over the age of 65 regardless of the event duration.

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.

Selected participants will receive an allowance from the IAEA sufficient to cover their costs of lodging,

daily subsistence and miscellaneous expenses. They will also receive either a round-trip air ticket based on the most direct and economical route between the airport nearest their residence and the airport nearest the duty station through the IAEA's travel agency American Express, or a travel grant, or they will be reimbursed travel by car/bus/train in accordance with IAEA rules for non-staff travel.

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.

Organization and IAEA Contacts

Programme Management Officer (responsible for substantive matters):

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Subsequent correspondence on scientific matters should be sent to the Programme Management Officer and correspondence on other matters related to the meeting to the Administrative Contact.