



IAEA

Atoms for Peace

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

Organismo Internacional de Energía Atómica

National Liaison Officer

Vienna International Centre, PO Box 100, 1400 Vienna, Austria

Phone: (+43 1) 2600 • Fax: (+43 1) 26007

Email: Official.Mail@iaea.org • Internet: <http://www.iaea.org>

In reply please refer to: RER/6/033/007

Dial directly to extension: (+431) 2600-26306

2016-06-24

Subject: Invitation to a Regional Training Course on Medical Physics for Clinical Radiotherapy, Moscow, Russian Federation, 3 - 21 October 2016

Dear National Liaison Officer,

I am pleased to invite you to send nominations of suitable candidates to participate in the above-mentioned training course under the framework of TC Project RER/6/033 – Strengthening Knowledge of Radiation Therapy Professionals (Radiation Oncologists, Medical Physicists and Radiation Therapy Technologists). The purpose of the training course and related information are outlined in the attached Prospectus. This course will be organized subject to a successful finalization of the host government agreement letter.

For candidates who are selected by the IAEA, the round trip air ticket from the home country to Moscow, Russian Federation and a stipend for the duration of the training course will be provided in line with IAEA rules and procedures.

Please submit nominations to the IAEA online through the Technical Cooperation Department's InTouch system (<http://intouch.iaea.org>). Only if this is not possible, nominations may be submitted on the Nomination Form for Training Course available on the IAEA website: <http://www.iaea.org/technicalcooperation/How-to-take-part/train-course/index.html>. Completed forms should be endorsed by relevant national authorities and sent to the Programme Management Officer for this project, Ms Mayumi Yamamoto (IAEA Official Fax: +43-1-26007 or E-Mail Official.Mail@iaea.org), through the official channels, i.e. the designated National Liaison Office for IAEA matters, not later than **24 July 2016**.

Yours sincerely,

Martin Krause
Director
Division for Europe
Department of Technical Cooperation

Enclosure: Prospectus

International Atomic Energy Agency

Regional Training Course on Medical Physics for Clinical Radiotherapy

PROSPECTUS

- Project Number & Title:** RER/6/033: "Strengthening Knowledge of Radiation Therapy Professionals (Radiation Oncologists, Medical Physicists and Radiation Therapy Technologists)"
- Place (City, Country):** Moscow, Russian Federation
- Dates:** 3 – 21 October 2016
- Deadline for Nominations:** 24 July 2016
- Organizers:** The International Atomic Energy Agency (IAEA) in cooperation with the Government of the Russian Federation through the Association of Medical Physicists in Russia (AMPR)
- Host Country Organizer:** Mr Valeriy Kostylev
AMPR
Kashirskoye shosse 24
115478 MOSCOW
RUSSIAN FEDERATION
Tel.: +7 495 3246093
Fax: +7 495 3243408
E-mail: kostylev@amphr.ru
- Language:** Russian
- Purpose:** The purpose of the course is to provide training in radiotherapy physics to improve the quality of delivery of radiation therapy to cancer patients.
- Expected Output(s):** It is expected that the participants will gain basic knowledge of dosimetry procedures as per IAEA TRS-398 code of practice and requirements of quality assurance (QA) for radiation therapy outlined in the IAEA publication "Radiation Oncology Physics: A Handbook for Teachers and Students" as well as the requirements of commissioning and quality assurance (QA) for computerized treatment planning systems (TPS) following the methodology described in the IAEA TRS-430 report.
- Scope and Nature:** The course will consist of deductive lectures and practical sessions followed by discussions with the course participants. It will cover basic concepts of radiation therapy physics, including clinical dosimetry, treatment planning and related QA:

- Basic radiation physics;
- Dosimetry principles, quantities and units;
- Radiation dosimeters;
- Radiation monitoring instruments;
- Radiation treatment machines;
- Photon and electron beams;
- Beam calibration;
- Commissioning of radiation treatment machines and TPSs;
- Clinical treatment planning including imaging and planning verification;
- Quality assurance of external beam radiotherapy including in vivo dosimetry;
- Radiation protection and safety.

Practical sessions will include dosimetry measurements and calculation exercises including beam calibration following the TRS-398 formalism, TLD irradiation for dosimetry audit, measurements needed for commissioning of radiotherapy machines and QA exercises, as well as clinical treatment planning exercises including clinical commissioning tests, dose calculations with TPSs for test cases, measurements at treatment machines and comparison of measured and calculated data.

Background Information:

The main activity of the project RER/6/033 consists of supporting participation in sub-regional training courses to train medical physicists from Russian speaking sub-region and allow interaction and exchange of experience with other medical physicists on practices and lessons learned. Opportunities for training and on-going professional growth can serve to increase motivation and professional qualification.

Participation:

The course is open to 20 participants from the countries that are taking part in the RER/6/033 project and that need assistance in training staff in radiotherapy physics. The course is targeted towards Russian-speaking participants.

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

*The course is also open to qualified Russian-speaking medical physicists from other regions.

Participants' Qualification:

The participants should be radiotherapy physicists working in radiation therapy departments who are willing to refresh their knowledge in clinical dosimetry for radiotherapy, treatment planning, equipment commissioning and related QA. Fluency in written and spoken Russian is required. This training course is not intended for radiation oncologists nor radiologists.

**Nomination
Procedure:**

Nominations should be submitted to the IAEA online through the Technical Cooperation Department's InTouch system (<http://intouch.iaea.org>). Should this not be possible, nominations may be submitted on the standard IAEA Nomination Form for Training Courses (available from the IAEA website: <http://www.iaea.org/>).

Furthermore, please ensure to provide the dose records for the last 5 years in the attached form. Failure to do so will be considered as incomplete submission of application, and your nomination form may not be reviewed.

Completed forms should be endorsed by the relevant national authorities and returned to the Agency through the normal official channels, i.e. the designated National Liaison Office for IAEA matters.

The completed nomination forms should be sent to the Programme Management Officer for this project, Ms Mayumi Yamamoto, through IAEA Official Fax (+43-1-26007) or E-Mail (Official.Mail@iaea.org), not later than **24 July 2016**. Nominations received after this date or which have not been routed through the established official channels cannot be considered.

**Administrative
and Financial
Arrangements:**

Nominating Governments will be informed in due course of the names of the candidates who have been selected and will, at that time, be given full details of the procedures to be followed with regard to administrative and financial matters.

Selected participants from countries eligible to receive technical assistance under the IAEA's technical cooperation programme will be provided with a round trip economy class air ticket from their home countries to Moscow, Russian Federation, and a stipend sufficient to cover the cost of their food and minor incidentals. Accommodation will be provided by the host institute. Shipment of accumulated course materials to the participants' home countries is not the responsibility of the IAEA.

The organizers of the course 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 nominating participants, undertakes responsibility for such coverage. Governments would be well advised to take out insurance against these risks.