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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

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2016-05-12

**Subject:** Invitation to an Interregional Training Course on Targeted Radionuclide Therapies, Houston, Texas, United States of America, from 31 October to 4 November 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 INT/6/056 – Supporting Quality Management Audits in Nuclear Medicine Practices (QUANUM). The purpose of the training course and related information are outlined in the attached Prospectus.

For candidates who are selected by the IAEA, the IAEA will cover the cost of return international travel from the home country to Houston, Texas, United States of America and provide a stipend for the duration of the training course 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](mailto:Official.Mail@iaea.org)), through the official channels, i.e. the designated National Liaison Office for IAEA matters, not later than 1 July 2016.

Yours sincerely,

Martin Krause

Director

Division for Europe

Department of Technical Cooperation

Enclosure: Prospectus

# International Atomic Energy Agency

## Interregional Training Course on Targeted Radionuclide Therapies

### PROSPECTUS

- Project Number & Title:** INT/6/056 Supporting Quality Management Audits in Nuclear Medicine Practices (QUANUM)
- Place (City, Country):** Houston, Texas, USA
- Dates:** 31 October to 4 November 2016
- Deadline for Nominations:** 1 July 2016
- Organizers:** The International Atomic Energy Agency (IAEA) in collaboration with the Government of the United States of America (USA) through the Argonne National Laboratory (ANL), Argonne, Illinois, USA, and MD Anderson Cancer Centre, Huston, Texas, USA
- Host Country Organizer:** Mr Homer Macapinlac  
Division of Diagnostic Imaging, Department of Nuclear Medicine  
The University of Texas MD Anderson Cancer Center  
1400 Pressler, Houston  
TX 77030, USA  
E-mail: hmacapinlac@mdanderson.org
- Ms Sunaree Hamilton  
Section Manager, International Programs Section  
Nuclear Engineering Division  
Argonne National Laboratory, Argonne, Illinois, USA  
E-mail: shamilton@anl.gov
- Language:** English
- Purpose:** The purpose of this interregional training course is to train experienced nuclear medicine physicians and nuclear medicine physicists with consolidated experience in therapeutic nuclear medicine and to let them acquire skills and competences gained which will enable them to enhance their practices.
- Expected Output(s):** The expected output is that participants will gain knowledge on the importance of targeted radionuclide therapies as a way to continuously improve the effectiveness and efficiency in a nuclear medicine department, understanding the different aspects involved in carrying out these therapies, and how to conduct them in a highly professional manner.

**Scope and Nature:  
Background Information:**

The interregional training course consists of lectures and interactive discussion sessions on the different aspects involved in Targeted Radionuclide Therapy. The interregional training course covers the fundamental principles and application of therapeutic nuclear medicine, specifically, nuclear medicine techniques in the treatment of thyroid cancer, prostate cancer and other cancer types. These lectures should provide theoretical grounding in the improvement of nuclear medicine services.

The experts will discuss the clinical utility and relative value with emphasis on the protocols to be used in the above conditions which will be one of the core learning points of this interregional training course.

Lectures and interactive discussion sessions covering approaches in Targeted Radionuclide Therapy from streamlined and emerging approaches should provide theoretical grounding in the improvement of therapeutic nuclear medicine services to achieve the following:

- a) Review the different established and emerging therapeutic nuclear medicine protocols and nuclear techniques in the evaluation and management of Thyroid cancer, Prostate cancer and other cancer types using I-131 and other radiopharmaceuticals.
- b) Comprehensive knowledge of epidemiology, causes, risk factors, clinical manifestations/symptoms in thyroid cancer, prostate cancer and others.
- c) Differentiate and analyse the different protocols used in therapeutic nuclear medicine procedures including the role of hybrid imaging.
- d) Explore the role of targeted radionuclide therapies into the clinical practice in IAEA Member States.
- e) Comprehensive knowledge of the different medical physicists aspects of targeted radionuclide therapy, including but not limited to internal dosimetry, radiation safety, quantification, advances in gamma camera SPECT/CT systems and PET/CT imaging, accreditation of PET systems and Quality Assurance and Quality Control.

**Participation:**

The interregional training course is open to **20** participants from countries in Africa, Asia and the Pacific, Europe and Latin America and the Caribbean. Each Member State may submit up to two nominations.

**Participants' Qualifications:**

The nominees should be qualified nuclear medicine physicians or nuclear medicine physicists, with background in therapeutic nuclear medicine applications.

As the interregional training course will be conducted in English, participants should have sufficient proficiency to follow lectures and express themselves

in this language without difficulty.

**Nomination  
Procedure:**

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](mailto:Official.Mail@iaea.org)), through the official channels, i.e. the designated National Liaison Office for IAEA matters, not later than **1 July 2016**.

**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 will be provided with a round trip economy class air ticket from their home countries to Houston, Texas, USA, and a stipend sufficient to cover the cost of their accommodation, food, and minor incidentals. Shipment of accumulated interregional training course materials to the participants' home countries is not the responsibility of the IAEA.

The organizers of the interregional training 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 interregional training 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.