



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

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In reply please refer to: C7-INT/9175/003
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2015-01-08

Subject: Invitation to a Practical Training Course on Planning and Implementation of Nuclear Facility Decommissioning and Remediation of Radioactively Contaminated Sites, Argonne Illinois, USA 13-24 April 2015

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/9175 – Promoting safe and efficient clean-up of radioactively contaminated facilities and sites. 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 Argonne, Illinois, United State 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, Mr Pavel Yurkin (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 13 February 2015.

Yours sincerely,

Manase Peter Salema
Director
Division for Europe
Department of Technical Cooperation

Enclosures: Prospectus

International Atomic Energy Agency

Practical Training Course on Planning and Implementation of Nuclear Facility Decommissioning and Remediation of Radioactively Contaminated Sites

PROSPECTUS

- Project Number & Title:** INT/9/175 Promoting safe and efficient clean-up of radioactively contaminated facilities and sites
- Place (City, Country):** Argonne National Laboratory, Argonne, IL, USA
- Dates:** 13- 24 April 2015
- Deadline for Nominations:** 13 February 2015
- Organizers:** The International Atomic Energy Agency (IAEA) in collaboration with the Government of the United States of America through the Argonne National Laboratory (ANL)
- Host Country Organizer:** Ms Karen Smith
International Programs Section Manager
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<http://international.anl.gov>
- Language:** English
- Purpose:** The primary objective of this training course is to provide implementing and regulatory organizations with a global understanding of the key aspects that need to be considered in the planning and implementation of Decommissioning and Environmental Remediation Projects also presenting those aspects that can constrain or delay project implementation and discuss potential mechanisms that can help in overcoming these constraints.
- Expected Output(s):** The course will enable the participants to understand the necessary infrastructure that must be put in place to carry on D&ER projects and the main activities involved in decommissioning and environmental remediation projects e.g. planning, management, cost estimate, site-characterization, post-remediation activities and institutional controls.. This understanding will improve participants' managerial capabilities related to the planning and execution of these projects thus contributing to facilitating their implementation.

Scope and Nature:

The course will take place over a two-week period, providing:

- Lectures on key topics related to dismantling and demolition and, decontamination of facilities and remediation approaches to clean-up contaminated sites. (Week 1)
- Interactive exercises to demonstrate key concepts, methods and tools (Week 2)

The course will be based on the elements covered by the Radiation Protection and Safety of Radiation Sources: International Basic Safety Standards - General Safety Requirements GSR Part 3, IAEA Safety Guides WS-G-3.1 (environmental remediation) and WS-G-2.4 (decommissioning) and other supporting technical documents. Appropriate analytical and project management tools for the implementation and oversight, sound and cost-effective strategies in the fields of decommissioning and environmental remediation will be covered.

The course has been evolving for the last four years. Although its core contents are the same, new elements are added every year and more weight has been continuously given to exercises and demonstration events.

The training Modules in the first part of the course will be presented using a format based on the proven learning sequence of lecture-, video- and field-observation and discussion.

Over the two-week period the following topics will be addressed:

- Policies and Strategies on D&ER and Regulatory Framework ;
- Project planning, management, cost estimation and decision-making;
- Site and facility characterization, sampling, and analysis;
- Safety Assessment
- Stakeholder involvement and risk communication;
- Data management
- Technology selection and deployment, proven and emerging technologies and materials for environmental remediation and decommissioning
- Site closure and long term stewardship; and
- Other topics specifically of interest to each sub-group.

In addition, the course will provide participants with details on IAEA networking opportunities, e.g. via the IAEA International Decommissioning Network (IDN) and Environmental Management and Remediation Network (ENVIRONET), their resources, and opportunities for assisting them.

It is anticipated that the course instructors will include staff from US organisations such as the U.S. Environmental Protection Agency, Department of Energy and Nuclear Regulatory Commission.

Background Information:

In addition to ethical and safety considerations, there are important drivers for early implementation of D&ER programmes, e.g., investment in D&ER can be good for the local economy and/or may benefit the site owner financially. *Inter alia*, investment in D&ER activities can create job opportunities, spur development of new businesses, facilitate sector growth, increase property values and provide potential redevelopment opportunities. Conversely, delaying D&ER projects may be costly due to potential degradation of structures, spread of contamination, loss of institutional knowledge, and uncertainty of future impacts on factors that will influence remediation efforts, such as availability and cost of waste management services and availability of a trained workforce to conduct D&ER activities

Participation:

The training course is open to up to 58 candidates from implementing and regulatory organizations responsible for the oversight of environmental remediation from the target countries.

The target Member States are: Algeria, Argentina, Armenia, Azerbaijan, Bangladesh, Belarus, Brazil, Bulgaria, Chile, China, Croatia, Cuba, Czech Republic, Egypt, Estonia, Georgia, Greece, Hungary, Indonesia, Iraq, Jamaica, Jordan, Kazakhstan, Kyrgyzstan, Kuwait, Latvia, Libya, Lithuania, Malawi, Malaysia, Mexico, Republic of Moldova, Mongolia, Morocco, Mozambique, Namibia, Niger, Pakistan, Peru, Philippines, Poland, Romania, Russian Federation, Saudi Arabia, Serbia, Slovakia, Slovenia, South Africa, Tajikistan, The Former Yugoslav Republic of Macedonia, Uganda, Ukraine, United Arab Emirates, United Republic of Tanzania, United States of America, Uzbekistan, Vietnam, and Zambia.

Participants' Qualifications:

The targeted audience for this training course is project managers, planners and other senior staff at organizations working on (or eventually to be designated as being responsible for) decommissioning/dismantling and environmental remediation projects (e.g., state or national resource management and regulatory agencies, operators of facilities or sites needing or undergoing large scale cleanup actions, national research organizations.)

Participants will be required, as part of the pre-requisites to attend the training course, to take the on-line e-learning modules on Introduction to Environmental Remediation available in the Environment network-space in CONNECT platform (<http://connect.iaea.org/sites/connect/Pages/default.aspx>)

This on-line e-learning training material will cover topics related to remediation works and will enable the training course participants to come to the training course with a broader perspective of the important issues concerning environmental remediation. While this material will help the participants to cope with the environmental remediation topics of the course, it will still be necessary that training course participants should have familiarity with decommissioning elements. The training modules will be designed to ensure that any participant who currently only has a general idea of the process used to decommission nuclear facilities and remediate contaminated sites will be able to learn a substantial amount of detail about these processes from this course. A basic understanding of some fundamentals of environmental processes, health physics and radioactive waste management, is required. An

important characteristic of those attending will be a genuine interest in becoming knowledgeable in the technical area of decommissioning and/or environmental remediation practice and to become a national and regional resource as well as a facility specific resource for their countries. In this regard, participants should be either currently active in the field, or from organizations willing to make that commitment on their behalf, and willing to offer their assistance on a timely basis to others in their region with similar needs. Good command of the English language is absolutely necessary to follow the course and profit from the lectures and exercises that will take place during the course.

Participants must be nominated by the competent national authority of the Member State and, most specifically, by the Member States' official counterpart for the project.

**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, Mr Pavel Yurkin (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 **13 February 2015**.

**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 Chicago, United States of America, and a Daily Subsistence Allowance at the prevailing UN Rate. Shipment of accumulated training course materials to the participants' home countries is not the responsibility of the IAEA.

The organizers of the 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 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.