



Training Workshop on Accelerator Based Analytical Techniques for Socioeconomic Development

**Hosted by the
Government of Republic of Croatia**

**through the
Ruđer Bošković Institute**

Zagreb, Croatia

23-27 November 2026

Ref. No.: EVT2504062

Information Sheet

Introduction

Accelerator based technologies are associated with a broad range of applications having societal and technological impact, with contribution to the economic development of Member States. The utilization of accelerators enhances innovation in a variety of fields such as health, materials research, cultural heritage, environment, energy and natural resources being typical examples. In this context, accelerator applications are one of the thematic areas, where the IAEA supports its Member States in strengthening their capabilities to adopt and benefit from the usage of accelerators.

In response to the training needs of young scientists from developing Member States in utilization of accelerators, the Physics Section, Division of Physical and Chemical Sciences (IAEA), is organizing the training workshop on Ion Beam Analysis (IBA) techniques at the accelerator facility of the Ruđer Bošković Institute, Zagreb, Croatia.

IBA techniques represent a category of non-destructive nuclear analytical methods applied with low energy electrostatic accelerators. They provide important, often unique, information on the elemental and isotopic composition, layer structure, electronic and some other properties of materials in solid or liquid form, with high precision. As such, they are used extensively in materials analysis, environmental monitoring, cultural heritage studies and other investigations of problems of key societal impact and industrial interest.

Objectives

The purpose of the event is to build the capacities of young researchers and provide them with advanced training in ion beam analysis techniques for socioeconomic development. Specifically, the training curricula will cover the following basic IBA techniques through introductory lectures and hands-on-training exercises:

- Proton-Induced X-ray Emission (PIXE)
- Proton-Induced Gamma-ray Emission (PIGE)
- Rutherford Backscattering Spectroscopy (RBS)
- Elastic Recoil Detection Analysis (ERDA)
- Inelastic Nuclear Reaction Analysis (NRA)

Target Audience

This training workshop is intended for recent graduates or young scientists working or planning to work on their early career research projects at accelerator facilities. The training is expected to widen their knowledge and skills in the standard IBA techniques through lectures, hands-on-exercises and demonstration experiments, and at the same time, address specific issues and challenges they might face in their research projects involving IBA techniques.

Working Language(s)

English

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 or invited organization, participants are requested to submit their application via the InTouch+ platform (<https://intouchplus.iaea.org>) to the competent national authority (Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority) or organization for onward transmission to the IAEA by **31 July 2026**, following the registration procedure in InTouch+:

1. Access the InTouch+ platform (<https://intouchplus.iaea.org>):
 - Persons with an existing NUCLEUS account can sign in to the platform with their username and password;
 - Persons without an existing NUCLEUS account can register [here](#).
2. Once signed in, prospective participants can use the InTouch+ platform to:
 - Complete or update their personal details under ‘Complete Profile’ and upload the relevant supporting documents;
 - Search for the relevant event under the ‘My Eligible Events’ tab;
 - Select the Member State or invited organization they want to represent from the drop-down menu entitled ‘Designating Authority’ (if an invited organization is not listed, please contact InTouchPlus.Contact-Point@iaea.org);
 - If applicable, indicate whether a paper is being submitted and complete the relevant information;
 - If applicable, indicate whether financial support is requested and complete the relevant information (this is not applicable to participants from invited organizations);
 - Based on the data input, the InTouch+ platform will automatically generate the Participation Form (Form A) and/or the Grant Application Form (Form C);
 - Submit their application.

Once submitted through the InTouch+ platform, the application, together with the auto-generated form(s), will be transmitted automatically to the required authority for approval. If approved, the application, together with the applicable form(s), will automatically be sent to the IAEA through the online platform.

NOTE: The application for financial support should be made, together with the submission of the application, by **31 July 2026**.

For additional information on how to apply for an event, please refer to the [InTouch+ Help](#) page. Any other issues or queries related to InTouch+ can be sent to InTouchPlus.Contact-Point@iaea.org.

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. The IAEA may also use the contact details of Applicants to inform them of the IAEA’s scientific and technical publications, or the latest employment opportunities and current open vacancies at the IAEA. These secondary purposes are consistent with the IAEA’s mandate. Further information can be found in the [Data Processing Notice](#) concerning IAEA InTouch+ platform.

Additional Requirements

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Applicants are requested to send a short CV with a brief justification statement why this training would be beneficial for their organization and their professional development. Applications without such supporting materials received before **31 July 2026** will not be considered.

Expenditures and Grants

No registration fee is charged to participants.

The IAEA is generally not in a position to bear the travel and other costs of participants in the event. The IAEA has, however, limited funds at its disposal to help meet the cost of attendance of certain participants. Upon specific request, such assistance may be offered to normally one participant per country, provided that, in the IAEA's view, the participant will make an important contribution to the event. The application for financial support should be made, together with the submission of the application, by **31 July 2026**.

Venue

The event will be held at and hosted by:

Ruđer Bošković Institute
Bijenička cesta 54
10000 ZAGREB
CROATIA

Participants must make their own travel and accommodation arrangements. General information on the Ruđer Bošković Institute (<https://www.irb.hr/eng/>) and other practical details, such as a list of hotels offering a reduced rate for IAEA participants, will be provided to the selected participants.

Visas

Participants who require a visa to enter Republic of Croatia should submit the necessary application as soon as possible to the nearest diplomatic or consular representative of Republic of Croatia.

IAEA Contacts

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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.