



According to the International Atomic Energy Agency (IAEA), nuclear technology plays a key role in driving economic development and supporting Economic Development Officers (EDOs) in enhancing community well-being. By integrating innovation with practical applications, nuclear science addresses critical challenges like energy security, climate change, and industrial growth.

The IAEA's 2025 strategy highlights leveraging nuclear technologies to create jobs, support sustainable growth, and uphold safety standards. Economic development varies by community, requiring inclusive planning that reflects local opportunities and priorities.

Nuclear applications in energy, healthcare, agriculture, and industry offer transformative potential. The IAEA provides expertise, guidance, and capacity-building to help EDOs use these technologies to drive economic growth and resilience.

We invite you to join this global effort. Share your ideas on how nuclear technologies can support the work of Economic Development Officers whether through innovative solutions, forward-thinking policies, or collaborative projects. Together, we can create a future where nuclear science and technology fuel prosperity, sustainability, and well-being for all.

Innovation for Nuclear (I4N) is an annual competition organized by the ENY-YGN that brings together participants from various European countries. In this edition, we invite young talents (students or young professionals <36 years of age) to channel their knowledge and creativity to develop innovative solutions using nuclear technology as an opportunity for economic development.

The competition consists of three stages:

National Competition (I4N Belgium)

-Each participating country will organize a national competition with its own format, deliverables, and judging panel. From this phase, one winning team will be selected to represent each country.

European Final and International Final

-The winners of the national competitions will proceed to the European Final, which will take place on the first week of June 2nd- 6th, 2025, in Zagreb, Croatia.

-The winning team from the European Final will then be invited to the International Final during the International Youth Nuclear Congress (IYNC) 2026, Avignon, France.

-In both the European and International Finals, teams will present their proposals to an international panel of judges in a presentation lasting no longer than 8 minutes.

The evaluation criteria for the national competitions have been standardized across all participating countries to ensure fair competition at the European Final.

Teams must consist of no more than four members, with all members under 36 years old at the time of the application. Each team must designate one member as the team leader. Additionally, teams may not participate in any other national I4N competition. At least one team member must live, work, or study in Belgium and be an associate or member of the nuclear industry, and every team member must be a European citizen.

How to Apply

Submit your application via [this google form](#), including Full name, affiliation, and email address of each team member. As well as the team leader's phone number, team name and a brief summary of 300 words of the idea. Applications will be accepted until **February 23rd, 2025, at 23:59 CET.**

The competition begins with a virtual launch session on February 25, 2025, where all teams are invited to address questions about the competition's development. Following this, teams will have the opportunity to participate in the Technical Session in mid-March 2025. During this dedicated session, leading stakeholders from the nuclear sector will present cutting-edge innovations and provide an overview of the industry.

Prior to **March 23, 2025, at 23:59 CEST**, teams validated by the organization must submit two key documents to bnsygcgroup@gmail.com in English:

- A pitch presentation
- A detailed proposal dossier ([Dossier template](#))

During the week of March 24–28, 2025 (time and location to be confirmed), teams will deliver an 8-minute oral presentation in English to the Jury, followed by a Q&A session. While in-person attendance in Brussels is strongly recommended, an online presentation option will be available for teams unable to travel.

Following the presentations, the winner of the national competition will gain access to an additional mentoring program with a BNS mentor to prepare for the European Final.

The Belgium Nuclear Society reserves the right to ownership and disclosure of the material submitted by participants. The submitting team bears sole responsibility for ensuring their work complies with all applicable employer, university, or institutional policies. Submissions must strictly adhere to academic and professional integrity standards, including plagiarism regulations. The BNS disclaims all responsibility for any disputes or claims arising from non-compliance with these obligations. Participation in the competition implies the acceptance of these terms by each participant.

Evaluation Criteria

The Jury will select the best work based on the following criteria:

- Creativity, freshness, and dynamism of the oral presentation.
- Level of innovation in the proposal.
- Market reality of the proposal.
- Technical Feasibility of the proposal.
- Adherence to the conceptual framework of economic development.

Schedule

- Submission of applications: Until February 23rd 23:59, 2025.
- Launch session (virtual): February 25th, 2025, at 18:00 CEST.
- Technical session on Innovation: Middle March.
- Submission of dossier: Until March 23rd 23:59, 2025.
- National Final (hybrid): Week of March 24-28, 2025.
- Jury decision : Week of April 14th -18th, 2025.
- European Final (in-person): June 2nd-6th, 2025, in Zagreb (Croatia).

Jury

The Jury will review the contents of the dossiers and attend the presentations. It will consist of three experts from the nuclear sector belonging to the following groups:

- A member of the Belgian Nuclear Society Young Generation Core Group.
- Representatives from the technical divisions of leading nuclear companies.
- Representatives from the business and innovation sectors of major industrial companies.

The Jury's decision, which will be final, will be made during the week of April 14-18, 2025, and will be published through BNS Young Generation and BNS media.

Awards

The team presenting **the winning work** in the national competition will receive:

- A monetary award of 1000€.
- An invitation to each participant for the European Final in Zagreb (Croatia) in June 2025.
- The invitation to the European Final will be accompanied by the payment of a travel grant per participant attending.
- The prize for the team winning the European Final is yet to be determined and will be communicated by the I4N organizing committee, led by ENS-YGN.

The prize cannot be transferred to another person under any circumstances. To receive the invitation to the BNS Annual Meeting, participants must become members of the BNS (free during the first year).