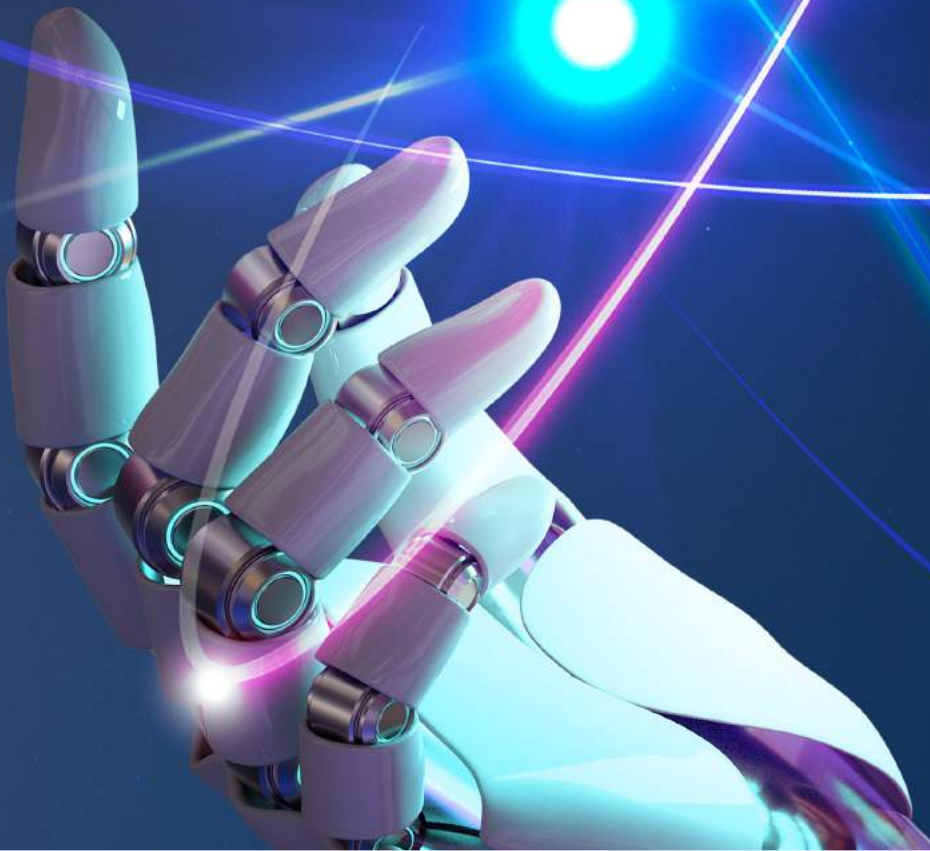




02 e 03 de dezembro  
CONGRESSO DE  
**TECNOLOGIA &  
INNOVATION**  
IN NUCLEAR SECTOR  
**TINS 2024**



**HOSTING:**

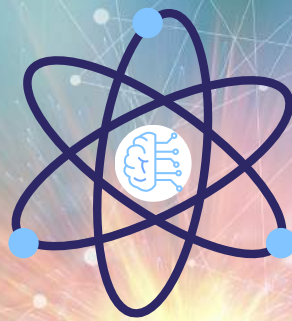


**ORGANIZATION:**



**SUPPORT:**





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**TINS 2024**

# INTRODUCTION

**Event:**

Congress of Technology and Innovation in Nuclear Sector (TINS 2024)

**Location:**

Auditorium CT2 - COPPETEC – R. Muniz de Aragão, 360 - Block 1 - Ilha do Fundão - University City, Rio de Janeiro – RJ.

**Date:**

December 2nd and 3rd, 2024

**Organization:**

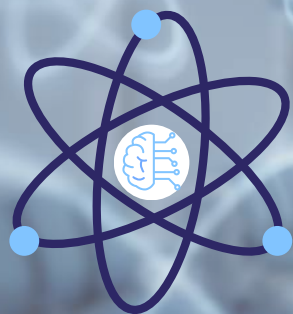
Laboratory of Environmental Analysis and Computational Simulation (LAASC), Laboratory of Simulation and Methods in Engineering (LASME), Alberto Luiz Coimbra Institute of Graduate Studies and Research in Engineering (COPPE)

**Hosting:**

Federal University of Rio de Janeiro (UFRJ).

**Support:**

Coordination for the Improvement of Personal Higher Education (CAPES), Coppetec Foundation and Brazilian Nuclear Energy Association (ABEN)



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IN NUCLEAR SECTOR  
**TINS 2024**

# ABOUT THE PROGRAM

## **Nuclear Engineering Program / Alberto Luiz Coimbra Institute of Graduate Studies and Research in Engineering**

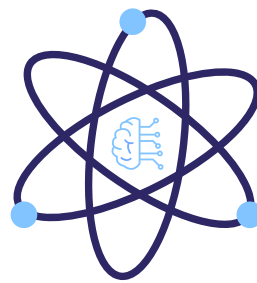
The Federal University of Rio Janeiro (UFRJ), in collaboration with the former National School of Engineering (current Polytechnic School of UFRJ), in partnership with CAPES, established in the fifties two specialization courses in Nuclear Engineering, one in Introduction to Nuclear Engineering, lasting one year, and another in postgraduate lato sensu in Nuclear Science and Technology, lasting two years. These initiatives, in line with international programs, aimed to specialize professionals in Physics, Chemistry, Mathematics, and Engineering in the field of nuclear energy.

The Nuclear Engineering Program (PEN) of COPPE and the Department of Nuclear Engineering (DNC) of the School of Engineering, since its establishment in 1972, operate in an integrated arrangement. The teachers of these entities play roles both in the postgraduate sphere (PEN) and in undergraduate (DNC), invariably fostering teaching and research in an indivisible manner.

The Alberto Luiz Coimbra Institute of Graduate Studies and Research in Engineering (COPPE), of the Federal University of Rio de Janeiro, stands out as one of the most prominent strongholds of teaching and research in Engineering in Latin America. Founded in 1963 by the eminent engineer Alberto Luiz Coimbra, it was of significant importance in the institutionalization process of postgraduate studies in Brazil, generating over five decades a contingent of 18,377 masters and doctors through its 13 Stricto Sensu graduate programs.

Based on three fundamental premises – academic excellence, exclusive dedication of teachers and students, and strengthening of ties with the community –, COPPE emerges as a prolific and disseminating source of knowledge, highly qualified professionals, and innovative instructional methods. Its high standards of quality in teaching, research, and interaction with society have been revered as paradigms in university and research institutions throughout the national territory.

Annually, COPPE grants diplomas to more than 500 masters and doctors, preparing them to address the frontiers of knowledge without losing sight of the realities and demands of contemporary society.



02 e 03 de dezembro  
CONGRESSO OF  
**TECNOLOGY &  
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IN NUCLEAR SECTOR  
**TINS 2024**

## TINS 2024

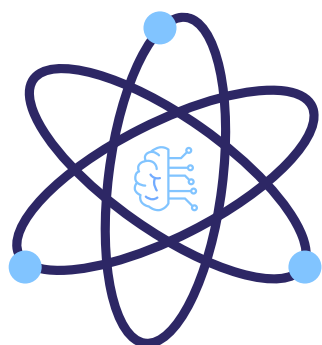
This year marks the second edition of our Congress, scheduled to take place in Rio de Janeiro, Brazil, from December 2nd to 3rd, 2024. Our inaugural event drew approximately 300 in-person participants and over 100 online attendees. Building on this success, we have chosen to focus this year's discussions on the theme "Future of Low Carbon: Education, Communication, and Nuclear Energy Security in Climate Change

**TINS 2024** stands as a prominent forum, a catalyst for the discussion of crucial themes for professionals engaged in the sectoral scenario, reverberating, thus, in the formation of specialized frameworks. This initiative constitutes a tangible contribution to the adoption of public policies that approach nuclear conception as a vector of progress and social inclusion, a task that looms as one of the pressing challenges of our community.

The primary products stemming from this congress encompass, essentially, two substantial pillars: first, the proceedings of the event, accessible in open access mode through the congress's website, and second, the continuous establishment of a database, whose purpose lies in facilitating the interconnection of members with a range of opportunities pertinent to the transport sector, encompassing both the public and private segments. A third and auspicious pillar is outlined in the foray into renowned journals, both internationally and nationally, aiming at the conception of special editions destined for academic contributions arising from the event.

At its core, the event delineates itself as a propeller of the refinement of indispensable public policies for the advancement of the nation, as it leverages the dissemination of knowledge apt to subsidize decision-makers in their strategic directions.

# TARGET AUDIENCE

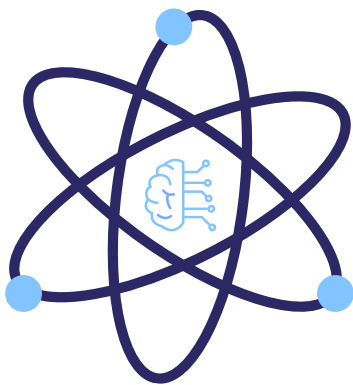


02 e 03 de dezembro  
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**TECNOLOGY &  
INNOVATION**  
IN NUCLEAR SECTOR  
**TINS 2024**

**TINS 2024** shapes up as a substantial scientific congress, aimed at addressing themes of preponderance in the sphere of nuclear engineering, through the realization of Seminars, Roundtables, and Lectures, instances that foster the exchange on issues affecting the various branches of this field of knowledge, as well as the exhibition of case studies, equipment, and technologies available in the market.

The target audience of the event encompasses a diverse range of stakeholders, including undergraduate and graduate students, professionals in the Nuclear, Energy, Medicine, and Biology fields, as well as students from vocational education at the high school level, and researchers and professionals in the sector, comprising an eclectic and engaged audience. The success of TINS 2023, bringing together 443 congress participants, was evident in the active participation of students, teachers, researchers, and other professionals working in the field of nuclear engineering, with 39 renowned figures from the area, greatly enriching the debates. Among these, 51% participated in person, while the remainder joined virtually, in line with contemporary demands.

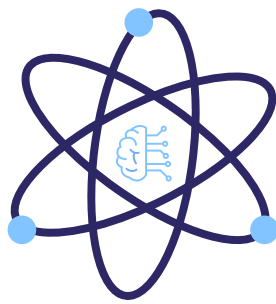
# EVENT CONTRIBUTION



02 e 03 de dezembro  
CONGRESSO DE  
**TECNOLOGIA &  
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**TINS 2024** proposes itself as an arena of scrutiny, dealing with technical, managerial, political, environmental, economic, and social nuances pertinent to the field of nuclear engineering, thus engendering the consideration of challenges faced by both the academic corpus and the professional contingent. In this context, the event will bring together figures from different geographies of Brazil and abroad, besides establishing 10 technical sessions for the presentation of scientific contributions, encompassing thematic areas such as Security and Protection in the Nuclear Sector, Applications of Nuclear Engineering, Nuclear Innovations, Technologies in Nuclear Reactors, and Knowledge Management.

The unfolding of **TINS 2024** will host an eclectic array of stakeholders, including members of academia, the private sector, and the governmental sphere (at the municipal, state, and federal levels), thus delineating the vastness of its incidence and influence. Under the academic aegis, the traditional presence of teachers and researchers from various public and private higher education institutions in Brazil is highlighted, as well as institutes and centers for technological training, which consequently amplifies the dissemination of knowledge, albeit indirectly, to a comprehensive audience, comprising both technical high school education and technologists. Furthermore, the adherence of luminaries and professionals from internationally renowned institutions is anticipated, greatly enriching the spectrum of dialogue and knowledge exchange.



02 e 03 de dezembro  
CONGRESS OF  
**TECNOLOGY &  
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**TINS 2024**

# ORGANIZING COMMITTEE

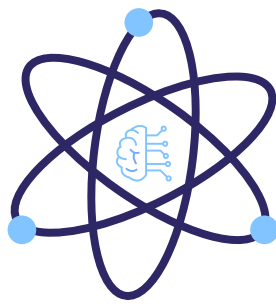
## **Coordinator:**

Profa Inayá Correa Barbosa Lima, COPPE/UFRJ

## **Collaborators:**

Prof Su Jian, COPPE/UFRJ

Ademir Xavier da Silva, POLI/UFRJ



02 e 03 de dezembro  
CONGRESS OF  
**TECNOLOGY &  
INNOVATION**  
IN NUCLEAR SECTOR  
**TINS 2024**

# **LOCAL SCIENTIFIC COMMITTEE-BRAZIL**

Profa. Denise Maria Zezell - IPEN/CNEN

Prof. Celso Marcelo Franklin Lapa - Emeritus  
IEN/CNEN

Prof. Fernando Manuel Araújo Moreira - Full Professor at Instituto Militar de Engenharia (IME); Coordinator of Research SE7/Nuclear Engineering; Department of Science and Technology; Brazilian Army Command

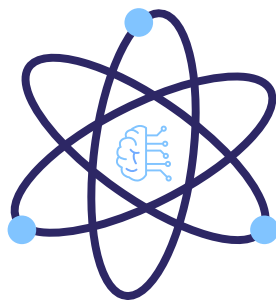
Prof. Giovanni Laranjo de Stefani - POLI/UFRJ

Prof. Ralph Santos-Oliveira - President of the Brazilian Association of Radiopharmacy

Prof. Ricardo Carvalho de Barros - UERJ Professor

Prof. Wallace Vallory Nunes - Coordinator of the Postgraduate Program at IME/RJ





02 e 03 de dezembro  
CONGRESS OF  
**TECNOLOGY &  
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IN NUCLEAR SECTOR  
**TINS 2024**

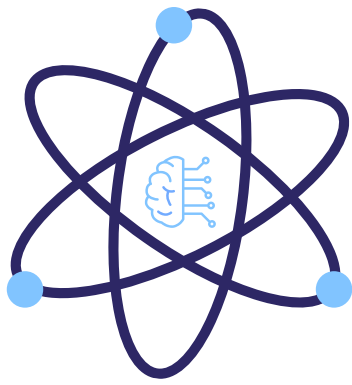
# **INTERNATIONAL SCIENTIFIC COMMITTEE**

Profa. Veronica Garea - INVAP- Instituto Balseiro

Prof. Martinus Theodorus van Genuchten - Senior Researcher in Soil Physics, having worked at Princeton and at the US Salinity Laboratory in Riverside, California.

Dr. Richard P. Hugtenburg - Associate Professor of Medical Physics, Medical Physics at Swansea University and a clinical scientist, specializing in radiotherapy physics, at Singleton Hospital, Swansea Bay University Health Board.

Profa. Anna Popkova - RUDN/Russia

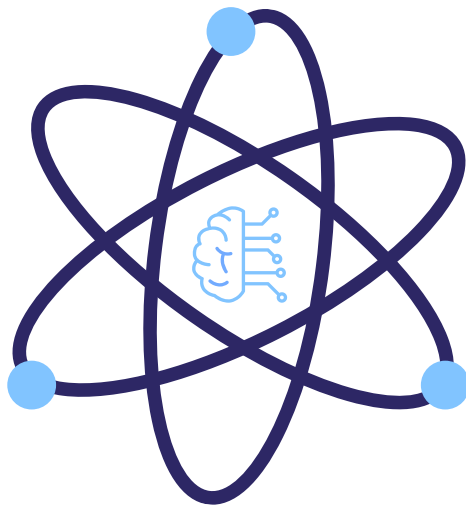


02 e 03 de dezembro  
**CONGRESS OF  
 TECHNOLOGY &  
 INNOVATION**  
 IN NUCLEAR SECTOR  
**TINS 2024**

<b>COUNTERPARTS</b>	<b>DIAMOND USD 3.350,00</b>	<b>GOLD USD 2.500,00</b>	<b>SILVER USD 2.000,00</b>	<b>BRONZE USD 1.600,00</b>
Distribution of institutional content and promotional messages in participant folders (*)	✓	✓	✓	✓
Distribution of the sponsor's brand on all graphic, printed, or electronic materials of the event.	✓	✓	✓	✓
Promotion of the sponsor's brand on the event website	✓	✓	✓	✓
Promotion of the sponsor's brand on electronic posters distributed through the event's email list and social media.	✓	✓	✓	✓
Mention of the sponsor during the event's opening session	✓	✓	✓	✓
Provision of a booth for the sponsor's promotion (Niche with carpet + counter + table + 2 chairs + totem / area of 200x200cm)	✓	✓		
Display of an institutional video of up to one and a half minutes at the event's opening (**)	✓	✓		
Customized counterpart for a main and/or exclusive brand exhibition activity during the event	✓			
Provision of space for promoting a 'Seminar/Thematic Conference' on a topic of interest to the sponsoring company (*)	✓			

(\*) to discuss inclusion in round tables and forums

(\*\*) to discuss duration and timing of the video



02 e 03 de dezembro  
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**TECNOLOGY &  
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IN NUCLEAR SECTOR  
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**HOSTING:**



**ORGANIZATION:**



**SUPPORT:**

