

Empowering the Youth “Young Scientists Conclave”

About IISF 2024

The India International Science Festival (IISF) is a collaborative initiative led by the Ministry of Science and Technology, the Ministry of Earth Sciences, the Department of Space, and the Department of Atomic Energy, in partnership with *Vijnana Bharati*-a national science movement inspired by the spirit of Swadeshi and spearheaded by Indian scientists. The primary objective of IISF is to celebrate science and make it accessible to all. It aims to engage the general public with science enjoyably and interactively, thereby contributing to health, prosperity, and a meaningful life.

Through its innovative programs and initiatives, IISF provides opportunities for both the general public and the scientific community-nationally and internationally-to come together, collaborate, and celebrate the advancement of scientific endeavours for the betterment of India and humanity.

Young Scientist Conclave Empowering the Youth

The Young Scientist Conclave (YSC) is designed to provide a platform for nurturing the growth of aspiring researchers in frontier sciences. This conference brings together young postgraduates, research scholars, postdocs, academicians, scientists, entrepreneurs, and innovators under the age of 45 from R&D laboratories, academic institutions, and industries to share experiences, exchange ideas, and discuss the country's research vision towards a Viksit Bharat 2047.

YSC offers young researchers the opportunity to showcase their accomplishments, explore emerging trends, and discover new research opportunities, methods, and tools in various fields, including mathematics, physics, space research, geology, environmental sciences, chemistry, biology, engineering, and more. The event emphasizes tackling global challenges such as climate change, sustainable development, and societal and industrial issues through scientific innovation.

In addition, YSC provides budding scientists with the chance to know about various research funding opportunities, witness India's scientific achievements and reflect on the pressing local and global challenges that can be addressed through science, technology, and innovation. Throughout the conclave, participants will have opportunities to present their ground-breaking research and innovations to diverse audiences, including the general public and fellow researchers. This collaborative environment fosters the establishment of scientific connections, encouraging collective efforts to solve societal challenges through science and technology.

Objectives of the Conference

- **Bring Researchers Together:** Create a platform for researchers, including scientists, postdoctoral fellows, research scholars, and experts, to showcase their findings and share experiences with peers. This exchange of ideas will foster a collaborative environment, driving scientific progress across various disciplines.
- **Enhance Scientific Potential:** Empower young researchers by identifying and exploring emerging trends, new research opportunities, and cutting-edge scientific methods and tools. This will enable participants to stay at the forefront of innovation in their respective fields.
- **Facilitate Interactions and Collaborations:** Encourage interactions between researchers and other scientific associations to address a wide range of opportunities in science, industry, and society, from local to global levels. These collaborations will help bridge the gap between academic research and real-world applications.
- **Establish Robust Networks:** Build enduring networks to promote the dissemination of scientific knowledge and foster cross-disciplinary dialogues that extend beyond the event itself. These networks will support ongoing research collaborations and innovations across diverse fields.
- **Cultivate Future Leaders:** Develop participants into influential leaders in their specific research areas. By nurturing their expertise and visibility, these researchers will become key figures driving progress and innovation, serving as role models for the next generation of scientists.

Themes

- **Innovations for Sustainable Development:** A focus on pioneering solutions for sustainable growth through innovative practices, waste reduction, and resource optimization.
- **Climate Action: Addressing Environment and Climate Change:** Exploring innovative research and technologies for preventing or mitigating climate change impacts and fostering environmental resilience.
- **Advances in Food Security and Agriculture:** Highlighting breakthroughs in agricultural technologies, sustainable farming, and ensuring global food security through innovative practices.
- **Frontiers in Life Sciences, Physical, Chemical, and Medical Sciences:** Delving into cutting-edge research at the intersection of life sciences, chemistry, physics, and medicine to address global health and scientific challenges.
- **AI, Machine Learning, Big Data, and IoT: Transforming the Future:** Examining the role of artificial intelligence, machine learning, big data, and IoT in revolutionizing industries, healthcare, and societal systems.
- **Innovations addressing societal or industrial challenges:** focuses on the role of science, technology, and innovation in solving critical societal and industrial problems. It highlights the transformative power of research-driven solutions to address challenges such as poverty, inequality, healthcare accessibility, urbanization, and industrial inefficiencies.
- **Translational Research:** Showcasing the successful application of scientific research in real-world contexts—industries, clinics, agriculture, and society at large.



Eligibility

Delegates below the age of 45, including students, doctoral and post-doctoral researchers, scientists, faculty members, professionals, grass root innovators, and entrepreneurs will be eligible for participation



Participation in YSC

Delegates will have opportunities to participate in oral presentations and digital poster/flash talks, where abstracts will be invited through a nomination and/or registration process under various themes. The abstracts will be selected through a peer review process and selected participants will be informed through email. The participants will also have the opportunity to listen to Vigyan Yuva SSB Awardees, Young Scientist Awardees, Young Innovators, Scientists, and Faculties in the Conclave.



Confirmation of Participation upon Selection

Once an email intimating the selection of the participants for oral presentations or digital poster/flash talks has been received, the participant should send a confirmation email along with their travel itinerary within 2 days of receiving the selection email. This is to facilitate local logistics.



Travel and Accommodation support

Expenses towards the travel and accommodation should be managed by the selected participants. The lunch and dinner will be provided at the event venue during the dates of the event.



Additional Information

All updated information regarding the participation will be conveyed via messages/email. Important details/ updates will also be available on the website.



Abstract Submission

Interested delegates are required to submit their abstracts online by the specified due date. Upon submission, an automatic response email will be generated. All eligible participants have to submit the abstract in not more than 300 words on or before November 10th, 2024.

For preparing the abstract kindly refer to the following indicative guidelines

Title - A concise and informative title that reflects the key focus of the research.

Background/Introduction/ Problem Statement - A brief context or background to introduce the research problem, its importance, and any existing gaps in knowledge.

Objective/Aim -The main goals or research questions the study intends to address.

Methods/Methodology - A summary of the research design, data collection techniques, tools, and analysis methods used.

Results/Findings - A concise overview of the key outcomes from the research.

Interpretation/ Conclusion - Takeaway from the research.

Relevance of Work:

For preparing the slides for oral presentation and digital poster/flash talks kindly refer to the following guidelines



The oral presentation will be of 08 minutes including a presentation time of 6 minutes (5-7 slides including introduction of the speaker, problem statement, findings, and its relevance) and a discussion time of 2 minutes.

Digital poster/flash talks (no physical poster presentations) will be 03 minutes (3 slides) followed by a short Q&A.

*** Awards: 1st, 2nd, and 3rd oral and digital poster/flash talk presentations will be awarded (number of Awards may vary based on the Jury recommendations)**

Important dates

Conclave Dates - Nov 30th to Dec 3rd 2024

Registration & Abstract Submission Deadline - November 10th, 2024.

Selection Email only to the Selected participants - Nov 15th 2024

Confirmation of participation to be received from selected participants - Nov 18th 2024

YSC Coordinators

Lead Coordinator	Partner Coordinators		
DST National Innovation Foundation (NIF) - India	CSIR National Institute For Interdisciplinary Science and Technology (NIIST)	VIBHA	IIT Guwahati
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Convener & Secretariat	CSIR National Institute For Interdisciplinary Science and Technology (NIIST)		

Please visit the website from time to time for the latest updates regarding the conference.