

Organisers



Min. of Earth Sciences



# INDIA INTERNATIONAL SCIENCE FESTIVAL

6 - 9 DEC 2025

**Vigyan se Samruddhi:  
For Aatmanirbhar Bharat**

Innovation. Aatmanirbharta. India for Global Good



“

I can foresee that India will march ahead phenomenally in this decade which is hailed as the techade for humanity

”



Co-organisers



Venue  
Panchkula, Haryana

Coordinating Institute  
Indian Institute of Tropical Meteorology, Pune





## Mission – IISF 2025: Vigyan Se Samruddhi : For Aatmanirbhar Bharat

The mission of **India International Science Festival (IISF) 2025 – Vigyan Se Samruddhi** is to celebrate and advance the spirit of science-led growth for a self-reliant and prosperous India. Rooted in the vision of “Science for Society and Nation Building,” IISF 2025 aims to bring together scientists, innovators, educators, students, industry leaders, Science Communicators, and policymakers on one platform to promote collaboration, creativity, and knowledge exchange.

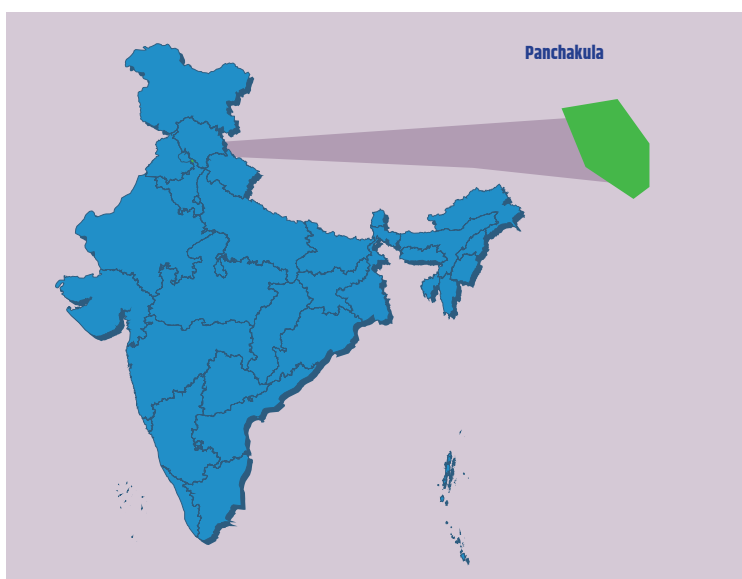
Through exhibitions, conferences, workshops, and outreach programs, IISF 2025 seeks to:

- Showcase India’s scientific achievements and innovations contributing to sustainable development.
- Inspire young minds to pursue careers in science, technology, and innovation.
- Encourage science-based entrepreneurship and innovation-driven economic growth.
- Strengthen the connection between traditional knowledge systems and modern research.
- Foster global partnerships for addressing shared challenges through science and technology.

“**Vigyan Se Samruddhi**” embodies the belief that true prosperity arises from the application of scientific knowledge—transforming ideas into innovations, discoveries into development, and science into societal well-being.

### Panchkula, Haryana

Panchkula is a well-planned, clean, and rapidly developing city forming part of the Chandigarh Tricity. Located at the foothills of the Shivalik range, it combines urban convenience with natural beauty. The city hosts key administrative offices, quality educational and healthcare institutions, and growing commercial and residential zones. Popular attractions like Mansa Devi Temple, Pinjore Gardens, Morni Hills, and the Cactus Garden make it culturally rich and scenic, offering a high quality of life.





INDIA  
INTERNATIONAL  
SCIENCE  
FESTIVAL  
6 Dec- 9 Dec 2025

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**Note:**

The New Age Technology Event will include sessions and deliberations on:

Artificial Intelligence (AI) and Artificial General Intelligence (AGI); Bio Economy; New Space Technology; Quantum Technology; Gene Editing; Emerging Telecommunications; Semiconductor Technologies; Unmanned Aerial Vehicles (UAVs)

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**VIGYAN SE SAMRUDDHI : FOR AATMANIRBHAR BHARAT**  
Innovation. Aatmanirbharta. India for Global Good

## Science on Sphere

The exhibit titled “Science on a Sphere” is an innovative and interactive display designed to transform the way audiences experience scientific data. Shaped like a perfectly suspended globe, the sphere serves as a dynamic three-dimensional screen that brings complex scientific information to life in high-definition visuals. Instead of flat images or charts, viewers can see data projected seamlessly across the entire surface, creating the illusion of a living, rotating planet.

Developed as a unique educational tool, Science on a Sphere allows visitors to explore topics ranging from Earth’s changing climate and ocean currents to planetary systems and galaxy formations. The HD display makes phenomena such as hurricane paths, tectonic movements, or global temperature shifts visually striking and easy to understand. As the visuals animate across the sphere, audiences gain a deeper appreciation of the interconnected systems that shape our world. This exhibit bridges science with engagement, turning data into a vivid storytelling medium. It invites learners, researchers, and curious visitors of all ages to discover how science influences daily lives and global progress. By presenting knowledge in an accessible and immersive form, Science on a Sphere highlights the beauty and importance of scientific inquiry in shaping a sustainable future.

### Highlights:

- Immersive 3D Display
- Real-Time Visualization
- Interactive Learning
- Dynamic Earth Model
- Global Data Projection
- Climate & Space Exploration
- Scientific Storytelling
- Engaging Education
- Sustainable Future Insight
- Visual Science Experience

Lead Coordinators: **MoES**

Partner Coordinators: NCPOR, Goa

Convener – IITM, Pune



## Ambassadors & Science Consulates Meet

The **Ambassadors & Science Consulates Meet** is a distinguished initiative under **IISF 2025**, aimed at strengthening international scientific collaboration, knowledge exchange, and innovation partnerships with **Ocean RIM countries** and other global stakeholders. The event provides a platform for diplomatic representatives, scientific advisors, and research consulates to engage directly with Indian scientists, policymakers, and industry leaders.

Through high-level discussions, panel sessions, and networking opportunities, the meet will focus on collaborative research in areas such as **climate change, oceanography, renewable energy, biotechnology, space science, and sustainable development**. This interaction fosters global partnerships, encourages science diplomacy, and aligns India's science and technology vision with international priorities.

### Highlights:

- International Scientific Collaboration
- Engagement with Ocean RIM Countries
- Science Diplomacy & Policy Dialogue
- Innovation & Technology Partnerships
- Sustainable Development Focus
- Knowledge Exchange & Networking

### Participants:

- Ambassadors and Consuls from Ocean RIM countries
- Representatives of foreign science and technology consulates
- Indian scientists, innovators, and researchers
- Industry leaders and entrepreneurs
- Policymakers and government officials

Lead Coordinating : MoES, DST

Partner Coordinators: VIBHA, DBT, CSIR

Convener – IITM, Pune



# Himalayas in a Changing Climate

## A Regional Science Odyssey under IISF 2025

As part of the India International Science Festival (IISF) 2025, “Himalayas in a Changing Climate” is a flagship initiative that highlights the critical role of science and technology in addressing the environmental, social, and developmental challenges facing the Himalayan region and adjoining North West India.

This special program focuses on the Western Himalayan States and Union Territories, a region of immense ecological significance, cultural richness, and strategic importance. It aims to explore how scientific innovation can help communities adapt to and mitigate the impacts of climate change in this fragile and diverse landscape.

### Focus Areas:

- Climate Change & Ecosystem Resilience
- Water Security & Sustainable Use
- High-Altitude Agriculture & Food Security
- Renewable Energy & Green Technologies
- Health Systems in Mountain Regions
- Disaster Risk Reduction.
- Preserving Indigenous Knowledge & Biodiversity

The event will bring together **scientists, policymakers, innovators, entrepreneurs, and young researchers** to co-create solutions through Plenary sessions and expert panels; Demonstrations and exhibitions; Youth-led workshops and interactive dialogues

### Vision for the Future:

By celebrating both **traditional knowledge systems and modern scientific approaches**, Himalayas in a Changing Climate seeks to:

- Empower local communities with adaptive strategies
- Foster innovation-driven sustainable development
- Reinforce the role of science and technology in shaping a resilient and prosperous future for the Himalayan region and North West India

Coordinating Institute: CSIR-IHBT  
Partner Coordinators: VIBHA, MoES, PU  
Convener – IITM, Pune



## Minister-Secretary-Councils-Conclave - Thought Leaders Round Table

The Thought Leaders Round Table at IISF 2025 will convene Central and State Government Ministers, departmental secretaries, S&T council members, and CEOs from leading industries to deliberate on critical issues, share insights, and establish collaborations that influence both public and private sectors. The sessions will focus on leveraging science and technology to meet India's developmental goals for 2047, fostering innovative strategies that drive economic growth, societal advancement, and technological leadership. Special attention will be given to bridging gaps between government policies and business needs, ensuring that regulatory frameworks and industrial practices work synergistically for sustainable national development. A dedicated discussion will also address the theme "Developed North East with Developed India by 2047", highlighting regional priorities while integrating them into national growth objectives. By facilitating dialogues between policymakers, business leaders, and technology experts, the event aims to identify solutions to economic, regulatory, and societal challenges, enhance strategic collaborations, and accelerate India's journey toward becoming a global industrial and technological powerhouse, promoting inclusive growth and positioning the country as the Industrial Capital of the World by 2047.

### Highlights:

- Policy and Industry Alignment
- Strategic Partnerships
- Innovation and Technology
- Regulatory and Policy Reforms
- Economic Development
- Addressing National Challenges

### Expected Participants:

- State ministers
- Central Ministers
- Departmental Secretaries

Coordinating Institute: MoES, DST

Partner Coordinators: VIBHA

Convener – IITM, Pune



## Vision Sansad

Vision Sansad provides a rare, concerted platform for leaders from India's scientific institutions to come together and chart the future of research, education, and innovation. The event will feature plenary sessions with keynote addresses from national and international science leaders, panel discussions on R&D priorities and policy challenges, strategy workshops to address bottlenecks in science education and implementation, networking forums to foster inter-institutional collaborations, and innovation showcases highlighting successful technologies and projects. By facilitating these focused interactions, Vision Sansad aims to strengthen institutional partnerships, promote inclusive growth, and create actionable strategies for advancing science and technology across the country.

### Highlights:

- High-level deliberations on **science policy, research collaboration, and innovation strategies**
- Addressing bottlenecks in **science education, R&D, and technology implementation**
- Sharing best practices and institutional success stories
- Networking sessions to **build inter-institutional partnerships**
- Interactive discussions on inclusive growth and strengthening India's scientific ecosystem

### Expected Participants:

- Leaders from NITI Aayog and Science & Technology Departments
- Representatives of Science and Engineering Academies in India
- Officials from UGC, AICTE, and other regulatory agencies
- Directors and senior researchers from Premier R&D institutions, IITs, IISERs, and NITs
- Heads of Central, State, and Deemed-to-be Universities
- Selected industry representatives and private institutions

Coordinating Institute: MoES

Partner Coordinators: VIBHA

Convener – IITM, Pune



## Blue Economy

**Blue Economy** is a dedicated initiative under the India International Science Festival (IISF) 2025 that aims to engage the public in understanding the vast potential of India's marine and coastal resources. This program highlights the critical role oceans play in supporting biodiversity, driving economic growth, and sustaining coastal communities—while emphasizing the urgent need for conservation and sustainable use of marine ecosystems.

### Vision and Purpose:

The initiative seeks to foster awareness and dialogue around the Blue Economy by showcasing how science, innovation, and policy can work together to:

### Highlights of the Event:

- Promote sustainable fisheries and aquaculture
- Harness renewable marine energy sources
- Protect marine biodiversity and fragile ecosystems
- Strengthen coastal livelihoods and resilience
- Encourage responsible maritime trade and tourism
- Integrate traditional knowledge with modern marine science

### Focus Areas:

- Sustainable use of ocean resources for economic development and environmental health
- Marine biodiversity conservation and ecosystem-based management
- Climate change impacts on oceans and coastal zones
- Empowering coastal communities through science, innovation, and policy
- Strengthening India's maritime vision through education and public participation

### Expected Participants:

Scientists, marine researchers, policymakers, educators, students, industry stakeholders, NGOs, citizen scientists, and media professionals—united by a shared commitment to advancing India's Blue Economy and ocean stewardship.

Coordinating Institute: CSIR-NIO

Partner Coordinators: VIBHA, MoES, CSIR

Convener – IITM, Pune



## Clean Energy

**Clean Energy** is envisioned as a dynamic platform to educate, engage, and inspire dialogue on the transformative potential of clean energy technologies in India's journey toward energy independence, sustainability, and climate resilience. This initiative brings together diverse stakeholders to explore innovations across **renewables, nuclear, hydrogen, bioenergy, energy storage, and smart grids**, highlighting their collective role in shaping a low-carbon future.

The conclave will showcase cutting-edge research, scalable solutions, and emerging business opportunities across the clean energy spectrum. By addressing public perceptions, policy frameworks, and technological advancements, the event aims to foster trust, collaboration, and actionable strategies for accelerating clean energy adoption.

### Key Focus Areas:

- **Solar & Wind Energy:** Innovations in photovoltaic systems, offshore wind, and hybrid energy models
- **Green Hydrogen:** Production pathways, storage technologies, and industrial applications
- **Nuclear Energy:** Safe and efficient power generation, green hydrogen co-production, and non-power applications
- **Bioenergy & Waste-to-Energy:** Sustainable biomass, biogas, and circular economy models
- **Energy Storage & Smart Grids:** Battery technologies, grid integration, and digital energy management
- **Clean Energy for Agriculture & Industry:** Electrification, low-carbon manufacturing, and rural energy access
- **Policy, Finance & Public Engagement:** Enabling frameworks, investment opportunities, and citizen participation

### Event Highlights:

- Interactive Sessions
- Keynote by eminent experts
- Tech Talks
- Expert Panel Discussions

### Expected Participants:

Researchers, industry professionals, policymakers, educators, students, entrepreneurs, NGOs, citizen scientists, and media—united by a shared commitment to advancing clean energy solutions for India and the world.

### Expected Outcomes:

- Enhanced public understanding and acceptance of clean energy technologies
- Strengthened cross-sector partnerships for innovation and deployment
- Accelerated progress toward India's net-zero and energy security goals
- Empowered communities and youth to lead the clean energy transition

Coordinating Institute: DAE, IUAC

Partner Coordinators: VIBHA, MoES

Convener – IITM, Pune



## Ideas for Viksit Bharat – S&T Hackathon

The Ideas for Viksit Bharat – S&T Hackathon at IISF 2025 is designed to inspire and engage school and college students to develop innovative, practical solutions addressing pressing scientific and technological challenges in alignment with the vision of Viksit Bharat Sankalp. The problem statements for the hackathon are curated by key Government of India departments including Science & Technology, Space, Atomic Energy, and Earth Sciences.

Each participating institution may nominate one team of three students and a guide, with candidates screened at the state level before final selection. A total of 100 finalists, including 20–25 from the North Eastern states, will compete in the national finals. The top 10 teams will receive exciting prizes, and all final ideas will be forwarded to the respective government departments for potential implementation, internships, or project opportunities. The hackathon provides a dynamic platform for students to innovate, collaborate, and contribute to India's scientific and technological progress.

### Highlights:

- Problem Statements provided by Government Ministries and Departments
- State-level Screening to select top teams
- 100 Finalist Ideas presented at the national level
- Top 10 Winners awarded prizes and recognition
- Opportunity for Implementation, Internships, and Project Positions
- Hands-on experience in innovation, collaboration, and problem-solving in S&T

### Expected Participants:

School and college students from across India, with teams comprising 3 students and 1 guide per institution, including special representation from the North Western states.

### Expected Outcomes:

The S&T Hackathon at IISF 2025 will ignite creativity and problem-solving among young minds, generating innovative, technology-driven solutions aligned with the vision of Viksit Bharat. It will also identify and nurture future innovators, linking their ideas with government departments for real-world implementation, internships, and research opportunities.

Coordinating Institute: VIBHA, CSIR-CSIO

Partner Coordinators: MoES

Convener – IITM, Pune



## Startup Journeys at IISF 2025

### Celebrating Innovation, Growth & Entrepreneurial Impact

**Startup Journeys at IISF 2025** is a dynamic platform designed to spotlight the spirit of entrepreneurship and the transformative journeys of India's emerging startups. This initiative brings together **entrepreneurs, investors, mentors, industry leaders, and ecosystem enablers** to share experiences, forge partnerships, and accelerate innovation.

Through a curated blend of **interactive sessions, pitch opportunities, mentorship programs, and showcases**, Startup Journeys will illuminate the challenges, breakthroughs, and milestones that define the startup landscape. The event aims to nurture a vibrant environment where ideas flourish, collaborations thrive, and ventures scale.

#### Event Highlights:

- **Keynote Addresses:** Insights from eminent entrepreneurs, investors, and thought leaders
- **Startup Pitch Sessions:** Present innovative ideas to potential investors, partners, and accelerators
- **Networking Sessions:** Connect with mentors, industry experts, and fellow founders
- **Chats & Startup Showcases:** Celebrate success stories, product innovations, and impact-driven ventures
- **Case Studies & Mentorship Workshops:** Learn best practices from real-world startup journeys and expert guidance

#### Expected Participants:

Entrepreneurs and startup founders; Investors and venture capitalists; Industry experts and corporate leaders; Mentors, incubators, and accelerators; Students, researchers, and startup enthusiasts

#### Expected Outcomes:

- **Enhanced visibility** for emerging startups and their innovations
- **Strategic partnerships** between startups, investors, and industry stakeholders
- **Access to funding and mentorship** for early-stage ventures
- **Knowledge exchange** through real-world case studies and expert insights
- **Strengthened startup ecosystem** through collaboration, inspiration, and community building
- **Empowered entrepreneurs** equipped to scale their ventures and contribute to India's innovation-driven economy

Coordinating Institute: DBT-BIRAC

Partner Coordinators: VIBHA, MoES, DST-NIF

Convener – IITM, Pune



## Circular Economy

The **Circular Economy Conclave – From Waste to Resource** is a transformative initiative under IISF 2025 that celebrates the power of science, technology, and innovation in redefining waste as a valuable resource. Anchored in the principles of **reduce, reuse, and recycle**, the event promotes circular economy practices that close the loop on resource use, minimize environmental impact, and unlock new avenues for economic growth.

This platform will showcase **cutting-edge technologies, startup innovations, and community-driven models** that demonstrate how circular systems can be applied across sectors—from urban waste management to industrial by-product utilization. The program aims to inspire behavioral change, foster collaboration, and scale sustainable solutions for a cleaner and more resilient India.

### Key Themes & Focus Areas:

- **Solid Waste Management:** Decentralized models, segregation technologies, and zero-waste strategies
- **Plastic Circularity:** Recycling innovations, biodegradable alternatives, and extended producer responsibility
- **E-Waste Solutions:** Safe recovery of materials, reverse logistics, and digital repair ecosystems
- **Sustainable Packaging:** Eco-design, compostable materials, and reuse systems
- **Industrial Symbiosis:** Valorization of by-products and resource sharing across industries
- **Waste-to-Energy:** Bioenergy, refuse-derived fuels, and clean energy from organic waste
- **Behavioral Change & Citizen Engagement:** Awareness campaigns, school programs, and participatory models

### Event Highlights:

- Exhibitions & Demonstrations
- Expert Talks & Panel Discussions
- Youth & Entrepreneur Spotlights
- Community Innovation Zone

### Expected Participants:

Entrepreneurs, researchers, policymakers, educators, students, industry stakeholders, NGOs, citizen scientists, and media professionals—united by a shared commitment to circularity and sustainability.

### Expected Outcomes:

- Increased public awareness and adoption of circular economy principles
- Strengthened partnerships between science, industry, and communities
- Scaled deployment of circular innovations across sectors
- Empowered youth and entrepreneurs to lead circular transitions
- Contribution to India's vision of a zero-waste, resource-efficient, and climate-resilient future



Coordinating Institute: CSIR-NEERI

Partner Coordinators: VIBHA, MoES, CSIR, DST-NIF

Convener – IITM, Pune

## International Olympiad Students Meet

The Science, Maths, and Earth Science Olympiad sessions at IISF 2025 aim to celebrate and nurture the brightest young scientific minds from across India. National winners and participants from the Vidyarthi Vigyan Manthan (VVM) and International Olympiads in Science, Maths, and Earth Sciences will engage in interactive workshops, hands-on experiments, panel discussions with eminent scientists, and mentorship sessions. These sessions are designed to provide students with a deep understanding of advanced scientific concepts, interdisciplinary approaches, and real-world applications. Participants will also attend problem-solving challenges, scientific debates, and poster presentations, offering them opportunities to showcase their talent and innovations. By engaging with national and international experts, students will gain insights into research trends, explore career paths in STEM, and develop critical thinking and analytical skills. The program will also provide a platform to connect with peers, exchange ideas, and inspire collaborative learning.

### Highlights:

- Workshops and hands-on experiments in Science, Maths, and Earth Sciences
- Mentorship sessions with eminent scientists and Olympiad alumni
- Interactive problem-solving challenges and scientific debates
- Poster presentations and idea showcases
- Networking opportunities with national and international peers

### Takeaways and Outcomes:

- Enhanced understanding of advanced STEM concepts
- Improved problem-solving, analytical, and critical thinking skills
- Exposure to interdisciplinary research and real-world applications
- Inspiration to pursue careers in research, innovation, and scientific leadership
- Opportunities for collaboration, idea exchange, and peer learning

### Expected Participants:

- National winners and participants of **Vidyarthi Vigyan Manthan (VVM)**
- Students representing India in **International Science, Maths, and Earth Science Olympiads**

Coordinating Institute: VIBHA, HBSCE

Partner Coordinators: MoES

Convener – IITM, Pune



## Students S&T Village – The New Nalanda

The Students S&T Village – The New Nalanda at IISF 2025 is envisioned as an exciting hub to **engage, inspire, and ignite curiosity** among young minds in **science, technology, engineering, and mathematics (STEM)**. Designed as an interactive learning ecosystem, the Village will feature **hands-on demonstrations, live experiments, educational games, innovation challenges, and thematic workshops** that make learning science both fun and meaningful. Students will gain opportunities to **explore real-world applications of scientific principles**, encouraging curiosity-driven inquiry and creative problem-solving.

A key highlight of the program will be the **final presentations from the S&T Hackathon and Student Science Parliament sessions**, where participants will showcase ideas and discuss issues of scientific and societal importance. By immersing students in experiential learning and innovation-driven activities, The New Nalanda aims to **cultivate scientific temper, teamwork, and analytical thinking**, empowering the next generation to become **innovators, critical thinkers, and responsible contributors** to India's scientific future.

### Highlights:

- Project Exhibitions showcasing student innovations
- Interactive Demonstrations for hands-on learning
- Science Workshops to explore practical applications
- Science Parliament for presenting and debating ideas
- Innovation Challenge to stimulate creativity and problem-solving
- Visits to Education Expo and research institutes for exposure to advanced science and technology

### Expected Participants:

Students from classes VIII to XI, with 75% representation from the North East and border districts of India.

### Expected Outcomes:

The Students S&T Village – The New Nalanda will ignite scientific curiosity and foster hands-on learning among young students, inspiring them to pursue careers in STEM. It will also nurture innovation, teamwork, and problem-solving skills, shaping a new generation of creative thinkers and future scientists for India.

Coordinating Institute: INSA, IISER-Mohali

Partner Coordinators: VIBHA, MoES

Convener – IITM, Pune



## Educators and Teachers Workshop - The Gurukula

The Aspiring Science Educators and Teachers Workshop – The Gurukula at IISF 2025 is a dedicated platform for the professional development of science teachers and educators, focusing on enhancing the quality of science education in India. Designed for educators teaching from Class VII to MSc-level science disciplines, the workshop will feature interactive sessions, hands-on activities, training in innovative teaching methodologies, modern digital tools, and classroom strategies. Participants will engage in peer discussions, demonstration lessons, and collaborative projects to build a comprehensive toolkit for effective teaching. Special emphasis will be given to educators from the North East, ensuring 50% participation from the region. The Gurukula aims to inspire educators to cultivate scientific curiosity, creativity, and critical thinking among students, contributing to the vision of a progressive and technologically advanced 'Nav Bharat'.

### Highlights:

- Hands-on training in **innovative teaching methodologies**
- Exposure to **modern digital tools and classroom strategies**
- Interactive **peer discussions and collaborative projects**
- Demonstration lessons and practical teaching activities
- Development of a **comprehensive toolkit** for inspiring science education
- Focus on creating **future-ready science classrooms and motivated students**

### Expected Participants:

Science teachers and educators from Class VII to MSc-level, with 50% representation from the North East, along with education experts and mentors.

### Expected Outcomes:

The Gurukula will empower science educators with innovative teaching skills, digital tools, and experiential learning strategies to make classrooms more engaging and concept-driven. It will also build a strong network of inspired teachers—especially from the North East—who will act as catalysts for nurturing curiosity, creativity, and scientific temper among students, aligning education with the vision of Viksit Bharat.

Coordinating Institute: DST-NIF, NITTTR, Chandigarh

Partner Coordinators: MoES, VIBHA

Convener – IITM, Pune



## Women's Development to Women-led Development in S&T – Nari Shakti

Nari Shakti at IISF 2025 envisions a transformative shift from women as participants in science and technology programs to leaders driving innovation, research, and entrepreneurship in STEM. With global participation of women in STEM professions at only 35–36% and a modest 6% growth in the past decade, the event aims to empower women to take on leadership roles and actively shape policies and practices in science, technology, and innovation.

The program will feature leadership summits, CEO interactions, Women Innovators Conclave, mentorship initiatives, and professional networking sessions, designed to foster collaboration, guidance, and inspiration. By providing a platform for engaged discussions, peer learning, and creation of supportive structures, Nari Shakti seeks to enable women to thrive professionally while balancing personal and professional commitments. The event will highlight success stories, cultivate future women leaders in STEM, and strengthen networks for sustained impact in India's scientific ecosystem.

### Highlights:

- Leadership Summit
- Meet the CEOs
- Women Innovators Conclave
- Build Your Network
- Work-Life Balance Sessions
- Panel discussions

### Expected Participants:

Women professionals, researchers, innovators, and entrepreneurs in STEM; policymakers; academic leaders; mentors; and students aspiring to pursue careers in science, technology, and innovation.

### Expected Outcomes:

Nari Shakti at IISF 2025 will empower women to transition from contributors to leaders in science, technology, and innovation, fostering gender equity and inclusive growth in STEM. It will also create enduring mentorship networks and leadership opportunities, inspiring women to shape India's scientific and entrepreneurial future.

Coordinating Institute: DBT-NABI

Partner Coordinators: VIBHA, MoES

Convener – IITM, Pune



## Empowering the Youth – Young Scientists Conclave

The **Young Scientists Conclave (YSC) – IISF 2025** is a dynamic platform designed to **empower the youth in science and technology**, providing opportunities to showcase research, innovations, and contributions addressing both national and global challenges. The Conclave will feature **interactive sessions, presentations, exhibitions, panel discussions, and funding-focused workshops**, enabling participants to explore emerging trends, interdisciplinary research, and practical solutions to societal and industrial problems.

The event will bring together **Vigyan Yuva SSB Awardees, Young Scientist Awardees, Young Innovators, scientists, and faculty mentors**, fostering a collaborative environment for researchers under 45, including PhD and post-doctoral candidates. Participants will have the chance to **exhibit accomplishments, network with peers and experts, and explore collaborative opportunities**. Special sessions will focus on **funding avenues for young researchers**, supporting innovation and capacity building. By nurturing creativity, scientific inquiry, and professional growth, the YSC at IISF 2025 aims to **inspire and prepare India's next generation of scientific leaders** to drive progress and societal impact.

### Highlights:

- Participation of Vigyan Yuva SSB Awardees
- Showcasing of Young Innovators and their projects
- Recognition of Young Scientist Awardees
- Engagement with scientists, faculty mentors, and research experts
- Exhibitions and presentations by young researchers
- Funding-focused sessions for emerging researchers and innovators

### Expected Participants:

Young researchers under 45, including PhD and post-doctoral candidates, Young Scientist Awardees, Vigyan Yuva SSB Awardees, innovators, faculty mentors, and scientists.

Coordinating Institute: DST-NIF

Partner Coordinators: MoES, VIBHA, IISER-Mohali

Convener – IITM, Pune



## New Age Technologies

The New Age Technology segment at IISF 2025 is a visionary platform designed to showcase the cutting-edge advancements shaping the future of science, industry, and society. This initiative brings together thought leaders, researchers, entrepreneurs, and students to explore transformative technologies that are redefining how we live, work, and interact with the world.

From artificial intelligence to quantum breakthroughs, the event will spotlight emerging domains that hold the key to solving global challenges, driving economic growth, and positioning India as a leader in technological innovation

### Topics Covered:

1. Artificial Intelligence (AI) and Artificial General Intelligence (AGI)
2. Bio Economy
3. New Space Technology
4. Quantum Technology
5. Gene Editing
6. Emerging Telecommunications
7. Semiconductor Technologies
8. Unmanned Aerial Vehicles (UAVs)

### Highlights:

- Keynote Addresses by global and national technology leaders
- Theme Speeches on future trends and strategic roadmaps
- Panel Discussions featuring experts from academia, industry, and government
- Networking Sessions for collaboration and knowledge exchange
- B2B Meetings to foster partnerships and investment opportunities
- Startup Stalls showcasing innovations from selected deep-tech ventures

### Expected Participants:

All registered delegates of IISF, Invited school students form Face to face interaction, Startups, innovators, entrepreneurs, government officials, industry leaders, investors, academia, and researchers from technology-driven sectors.

### Expected Outcomes:

It will foster industry-academia collaborations, accelerate technology commercialization, and promote indigenous innovations aligned with the vision of Viksit Bharat 2047. It will inspire young entrepreneurs, strengthen public-private partnerships, and create opportunities for investment, capacity building, and global recognition of India's innovation ecosystem.

Coordinating Institute: DST-INST

Partner Coordinators: MoES, VIBHA, DBT

Convener – IITM, Pune



## Science Literature Festival: Vigyanika

Vigyanika 2025 is envisioned as a vibrant celebration of the fusion of science and literature, highlighting how scientific ideas and discoveries are expressed, interpreted, and shared through diverse literary and artistic forms. The event will promote science literacy, spark creativity in storytelling, and inspire dialogues on how traditional wisdom and contemporary science together shape our vision of an Atma Nirbhar Bharat. Vigyanika 2025 will also explore the future of science communication through new media, digital platforms, and creative narratives that connect with people in their mother tongues. With a strong emphasis on inclusivity and innovation, the event aims to bring together scientists, writers, communicators, educators, students, and the public to reimagine the art of science communication for India and the world.

### Highlights of Vigyanika 2025:

- Sessions on **scientific writing, storytelling, and evolution of scientific thought**
- **Science & Fiction dialogues** – exploring imagination, folklore, and futuristic visions
- **Communication in the mother tongue** – reaching diverse communities across India
- **Science drama, arts & competitions** for students and the public
- **Science and Social Media** – trends, challenges, and opportunities
- **AI, Visualization & Digital Storytelling** as tools for science communication
- **Citizen Science & Climate Communication** – engaging communities in pressing issues
- **Honouring traditional & contemporary scientists** who shaped India's scientific journey

### Expected Participants:

Scientists, researchers, science communicators, authors, journalists, educators, students, policymakers, artists, literature enthusiasts, and members of the general public interested in science, literature, and creative communication

### Expected Outcomes:

Vigyanika 2025 will inspire creative science communication through literature, art, and digital media, strengthening the bridge between science and society. It will encourage multilingual storytelling, nurture young science communicators, and foster a culture where scientific ideas are accessible, engaging, and rooted in India's knowledge traditions.

Coordinating Institute: CSIR-NIScPR

Partner Coordinators: MoES, VIBHA, PU

Convener – IITM, Pune



## S&T Media Conclave

The Media Conclave at IISF 2025 offers a dynamic platform for media professionals, journalists, science communicators, and content creators to engage with the latest developments in Science, Technology, and Innovation (STI). The program will feature interactive workshops, panel discussions, plenary sessions, and hands-on storytelling exercises, enabling participants to learn effective strategies for communicating complex scientific ideas to diverse audiences. Special sessions will address challenges of miscommunication, misinformation, and public perception of science, while highlighting innovative approaches to enhance accuracy and clarity in science reporting. Participants will also have opportunities to interact with leading scientists, policymakers, and educators, facilitating collaboration between the scientific community and media. The conclave aims to equip media professionals with tools and insights to create engaging, informative, and responsible science content, foster public understanding, and strengthen India's journey toward a scientifically informed and literate society.

### Highlights:

- Interactive workshops and storytelling sessions
- Panel discussions on effective science communication
- Sessions on miscommunication, misinformation, and media ethics
- Networking with scientists, policymakers, and educators
- Strategies for enhancing public understanding of science
- Promoting accurate, engaging, and responsible science reporting

### Expected Participants:

Media professionals, journalists, science communicators, editors, content creators, media students, and researchers involved in science communication

### Expected Outcomes:

The Media Conclave will enhance the capacity of journalists and science communicators to accurately and engagingly convey complex scientific concepts. It will foster responsible reporting, bridge the gap between scientists and the public, and contribute to a more informed, science-literate society in India.

Coordinating Institute: CSIR-NIScPR

Partner Coordinators: MoES, VIBHA, PU

Convener – IITM, Pune



## National Social Organisations and Institutions Meet – NSOIM

**National Social Organizations and Institutions Meet (NSOIM)** at IISF 2025 is designed as a vibrant platform to **foster collaboration and knowledge exchange** among stakeholders committed to societal development. The event brings together social organizations, research institutions, policymakers, industry leaders, and innovators to share insights, best practices, and success stories through **presentations, interactive sessions, workshops, and live demonstrations of transformative technologies**. By bridging the gap between scientific advancements and social applications, NSOIM highlights **grassroots models that drive livelihood-centric development**, promotes scalable innovations for underserved communities, and facilitates the commercialization of technologies to deliver tangible societal impact. Participants will engage in cross-sectoral dialogue, exploring ways to integrate scientific solutions into social programs, enhance community participation, and strengthen sustainable development initiatives. The event encourages partnerships, resource sharing, and strategic collaborations that can accelerate inclusive growth and empower citizens across India.

### Highlights of NSOIM:

- Presentations and interactive sessions by leading social organizations and researchers
- Live demonstrations of innovative technologies with social impact
- Platforms for collaboration between industry, policy, and social sectors
- Focus on **livelihood-centric and grassroots development models**
- Encouragement of **social diffusion** to underserved communities
- Showcasing **commercialization opportunities** for scientific innovations with societal benefit

### Expected Participants:

Social organizations, NGOs, research institutions, policymakers, industry leaders, innovators, educators, community development practitioners, and stakeholders involved in science-led social and livelihood initiatives.

### Expected Outcomes:

NSOIM will promote adoption of science-driven solutions for social development, enhance collaboration between research and social sectors, and foster measurable impact on livelihoods, education, and community well-being. It will also encourage scalable innovations, strengthen networks, and create actionable strategies for sustainable and inclusive societal progress.

Coordinating Institute: VIBHA

Partner Coordinators: MoES, DST-SEED, PU

Convener – IITM, Pune



## Science through Games and Adventures – Science Safari

Science Safari at IISF 2025, hosted within the Students S&T Village – The New Nalanda, is designed to engage students and teachers through interactive learning experiences that combine science, games, and adventure. The program will feature hands-on workshops, live demonstrations, interactive sessions, and classroom integration techniques to show how traditional and contemporary science-based toys and games can be used as powerful educational tools. Students will participate in problem-solving challenges, STEM games, adventure-based experiments, and creative activities that foster curiosity, critical thinking, and practical application of scientific concepts. Teachers will gain insights into innovative pedagogical approaches, educational games, and activity-based learning strategies that make STEM subjects engaging and enjoyable. Science Safari also includes exhibition stalls displaying science toys, kits, and adventure-based learning tools, providing an opportunity for participants to explore new technologies and innovative educational resources for classrooms.

### Highlights:

- Interactive **STEM games and adventure-based activities**
- **Hands-on workshops** for students and teachers
- **Exhibition stalls** showcasing science toys, kits, and educational tools
- Promoting **problem-solving, critical thinking, and practical STEM applications**
- Training teachers to integrate games and activities into classroom learning
- Fostering **curiosity, creativity, and innovative thinking in students**

### Expected Participants:

- Sessions: Students (Classes VI–XII), science teachers, educators, and STEM enthusiasts
- Stalls: School representatives, educational product developers, toy and kit manufacturers, and STEM innovators

### Expected Outcomes:

Science Safari will enhance student engagement, curiosity, and problem-solving skills through hands-on STEM activities and interactive learning experiences. It will also equip teachers with innovative pedagogical tools, activity-based strategies, and educational resources to make science education more engaging, practical, and effective in classrooms.

Coordinating Institute: CSIR-IMTECH  
Partner Coordinators: MoES, VIBHA, PU  
Convener – IITM, Pune



## Science–Technology–Defence–Space Exhibition

The India International Science Festival (IISF) 2025 will host a grand Science–**Technology–Defence–Space Exhibition**, showcasing India's pathbreaking achievements, innovations, and success stories across diverse sectors. The Sci-Tech Expo aims to highlight national progress in science, technology, space research, defence, and innovation while fostering scientific temperament, hands-on learning, and societal awareness among citizens.

Leading **scientific institutions, R&D organisations, PSUs, universities, start-ups, entrepreneurs, and grassroots innovators** will participate, presenting cutting-edge technologies and research that reflect India's growing scientific prowess. The exhibition will engage students, teachers, researchers, policymakers, and the general public through interactive exhibits and demonstrations.

The Expo will also feature key national missions launched by the **Hon'ble Prime Minister**, such as *AatmaNirbhar Bharat, Digital India, Swachh Bharat Abhiyan, Skill India, Make in India, and Unnat Bharat Abhiyan*. A special attraction this year will be the display of **indigenous technologies used in Operation Sindoor**, symbolising India's technological self-reliance and defence capability.

Spanning domains like space science, agriculture, healthcare, environment, and biotechnology, the exhibition will serve as a vibrant platform to celebrate India's scientific spirit and inspire young minds to contribute to national growth and global progress.

### Highlights:

- Showcasing India's achievements in Science and Technology.
- Integrating art, culture, and traditions in depicting scientific temper.
- Emphasizing the synergy between science, technology, innovation, and society.
- Providing a national platform for research organizations to display their activities.
- Creating an interactive forum for scientists, artists, and innovators.
- Featuring flagship programs and missions initiated by the Hon'ble Prime Minister.
- Fostering industrial collaboration and growth.

### Expected Participants:

Participants will include Ministries and Departments of the Government of India and State Governments, Research Councils, Organizations and PSUs, Industries, Grassroots Innovators, Start-ups, Entrepreneurs, Private Sector Companies, Laboratories and Technological Institutes, Educational Institutions and Universities, as well as Craftsmen and Artisans

### Expected Outcomes:

- Providing a common platform for the research and industrial sectors.
- Highlighting achievements of India's scientific and industrial councils.
- Enabling direct interaction between scientific institutions and the general public.
- Strengthening collaboration between industry and scientists.
- Fostering scientific temper among students and Focusing on advancements in Science & Technology.
- State pavilions to showcase each state's scientific, cultural, and industrial strengths.



Coordinating Institute: VIBHA  
Partner Coordinators: MoES, PU  
Convener – IITM, Pune

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## About Organisers

### **Ministry of Earth Sciences (MoES) – Coordinating Ministry**

The **Ministry of Earth Sciences (MoES)**, Government of India, serves as the coordinating ministry for IISF 2025. Mandated to advance research, monitoring, and applications in meteorology, oceanography, seismology, and climate sciences, MoES plays a pivotal role in shaping India's scientific policies and infrastructure. By fostering collaboration among national institutions, research bodies, and industry partners, the ministry ensures the alignment of IISF objectives with India's broader scientific vision, promoting innovation, capacity building, and societal impact across Earth and environmental sciences.

### **Vijnana Bharati (VIBHA)**

**Vijnana Bharati** is India's premier voluntary organization dedicated to promoting scientific temper, indigenous knowledge, and public engagement in science. As a key partner for IISF 2025, VIBHA facilitates outreach, awareness campaigns, and community participation across India. Through its extensive network of educators, students, and science enthusiasts, Vijnana Bharati bridges formal science institutions with grassroots initiatives, promoting innovation, knowledge sharing, and societal applications of science, while fostering national pride in India's scientific achievements and heritage.

### **CSIR, DBT, DST, ISRO, DAE – Collaborating Agencies**

Leading national science and technology agencies—**CSIR, DBT, DST, ISRO, and DAE**—play a crucial role in IISF 2025 as collaborating partners. These organizations bring expertise across multidisciplinary research, biotechnology, space technology, energy, atomic sciences, and innovation ecosystems. By contributing exhibitions, workshops, demonstrations, and research showcases, they facilitate knowledge dissemination and inspire young scientists. Their combined participation highlights India's strengths in cutting-edge technology, research infrastructure, and policy-driven innovation, while enabling students, entrepreneurs, and the public to engage with real-world scientific challenges and breakthroughs across diverse sectors of national and global significance.

### **Indian Institute of Tropical Meteorology (IITM), Pune – Coordinating Institute**

The **Indian Institute of Tropical Meteorology (IITM), Pune**, serves as the coordinating institute for IISF 2025, providing scientific and technical leadership for the event. Renowned for its research in meteorology, climate science, and atmospheric studies, IITM facilitates the planning and execution of workshops, exhibitions, and interactive sessions. By leveraging its expertise and resources, the institute promotes collaboration among students, researchers, and innovators, ensuring the effective dissemination of knowledge, cutting-edge technologies, and scientific insights to participants from across India and the world.



# Organisers



पृथ्वी विज्ञान मंत्रालय  
Ministry of Earth Sciences



Department of  
Science &  
Technology,  
Government of  
India

सत्यमेव जयते



सौरसभाईभार  
CSIR  
भारत का नवाचार इंजन  
The Innovation Engine of India



अंतरिक्ष विभाग  
DEPARTMENT OF  
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सत्यमेव जयते



Department of  
BioTechnology,  
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of India

सत्यमेव जयते

