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Indian Institute of Technology Kanpur

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IITK SAMANVAY

ACCELERATING INNOVATION FOR A BETTER TOMORROW

Report 2026

EMERGING **TECHNOLOGIES**
ENDURING **PARTNERSHIPS**



An Industry-Academia Collaborative Endeavor

OVERVIEW

IITK Samanvay 2026 was held on 15 October 2026 at Bharat Mandapam, New Delhi, under the theme "Emerging Technologies, Enduring Partnerships." The event brought together leaders from government, industry, academia, philanthropy, healthcare, and the startup ecosystem to strengthen collaborations that move research from the lab to real-world use, in line with national priorities.

291	19	21	3	3
INDUSTRY REPRESENTATIVES	DISTINGUISHED SPEAKERS	TECHNOLOGIES SHOWCASED	EXPERT TALKS	PANEL DISCUSSIONS

The program was inaugurated by Dr. Jitendra Singh, Hon'ble Minister of State for Science & Technology and Earth Sciences, Government of India. In his keynote, he highlighted the role of research, philanthropy, and innovation in realising the vision of Viksit Bharat 2047, and stressed the need for globally competitive indigenous technologies.

Through out the day, three expert talks and three panel discussions explored how closer collaboration between academia, industry, government, and philanthropic organisations can accelerate product development, make healthcare more affordable and accessible, advance sustainable technologies, and open clearer pathways from research to commercialisation.

Alongside these sessions, researchers, faculty, innovators, and startups from across IIT Kanpur presented more than 20 technology showcases, demonstrating the Institute's multidisciplinary strengths and its growing role in co-creating solutions with industry to some of India's most pressing challenges.

> ***IITK Samanvay 2026 reaffirmed IIT Kanpur's role as a catalyst for innovation-led development, built on partnerships that last.***



DIRECTOR'S ADDRESS



Prof. Manindra Agrawal reflected on the remarkable growth of IITK Samanvay from a modest initiative three years ago into a significant platform for collaboration among academia, industry and government.

He emphasised that addressing complex challenges and driving innovation at scale requires these stakeholders to work in close synergy, reaffirming IIT Kanpur's commitment to advancing research and technology that address real-world needs and national priorities.

Highlighting the Institute's continued efforts to strengthen the innovation ecosystem, he referred to the launch of IIT Kanpur's fundraising campaign aimed at enabling the development of strategic and critical technologies through greater engagement with industry, government, and philanthropic partners. He noted that such initiatives are essential for accelerating research translation and creating solutions with lasting societal impact.

Prof. Agrawal emphasised that IITK Samanvay 2026 provides an important platform for bringing together diverse stakeholders to exchange ideas, strengthen partnerships, and explore collaborative opportunities. He expressed confidence that the deliberations and interactions during the event would foster stronger synergies among academia, industry, and government, leading to impactful technologies and solutions that benefit not only India but the global community.

> ***"If we want to create truly impactful solutions that can be deployed at scale, it is essential that academia, industry, and government work in close synergy."***

Manindra Agrawal
Director, IIT Kanpur

VISION of

DR. JITENDRA SINGH

Hon'ble Minister of State for Science and Technology and Earth Sciences, Government of India

Dr. Jitendra Singh outlined a forward-looking vision for India's scientific and technological future, highlighting the nation's progress in emerging technologies over the past decade. Referring to the theme of IITK Samanvay 2026, "Emerging Technologies, Enduring Partnerships," he noted that India's growing capabilities in space exploration, artificial intelligence, biotechnology, quantum technologies and other frontier domains position the country to emerge as a global leader in innovation.



Recognising IIT Kanpur's efforts in convening leaders from academia, industry, government and philanthropy, he commended the Institute for creating a platform that strengthens collaboration across sectors. He observed that transformative innovation requires enduring partnerships that bring together scientific excellence, industrial expertise, public policy and philanthropic support to address national priorities.

Dr. Singh stressed the importance of moving beyond conventional models of engagement by strengthening the pathway from laboratory research to real-world implementation. He emphasised that translating research into scalable technologies requires long-term investment, shared commitment, calculated risk-taking and sustained collaboration among researchers, industry, government and philanthropic organisations.

Highlighting the evolution of India's innovation ecosystem, he acknowledged the growing role of academic institutions in establishing research parks, innovation hubs, startup ecosystems and industry collaborations that connect scientific capabilities with market needs. He noted that such initiatives are accelerating the commercialisation of indigenous technologies while strengthening India's research and manufacturing capabilities.



Reaffirming the Government of India's commitment to fostering an enabling environment for research and innovation, Dr. Singh underscored the importance of policy support, increased investment in research and development, and a stronger culture of research philanthropy in achieving the vision of Viksit Bharat 2047.

Illustrating this aspiration, he remarked, "Just as the whole world is talking about the Indian pilot, we want the whole world to talk about a plane made in India too."

The analogy underscored his call for India to move beyond global recognition for its talent to becoming a nation known for creating world-class indigenous technologies and products.



> ***Key Message: India's scientific progress depends on sustained academia-industry partnerships, investment in R&D and a shared commitment to translating research excellence into globally competitive indigenous technologies.***

KEYNOTE ADDRESS

MR. MIRIK GOGRI

Corporate Strategy, Aarti Industries
Principal, Spectrum Impact
Founder, India's Translational Research Initiative (ITRI)



In his keynote address titled "Crossing the Valley of Death," Mr. Mirik Gogri highlighted one of the most significant challenges confronting India's innovation ecosystem: bridging the gap between scientific discovery and commercial deployment. Drawing upon his experience of building industrial R&D capabilities at Aarti Industries and supporting deep-tech innovation through Spectrum Impact and India's Translational Research Initiative (ITRI), he emphasised that India's opportunity lies not merely in producing world-class research, but in translating it into technologies that create economic and societal value.

Reflecting on his interactions across academia, industry and government, Mr. Gogri remarked that discussions on industry–academia collaboration often follow a familiar pattern: "industry blames academia, academia blames industry, and together

He noted that rather than assigning responsibility, it is important to address the structural gaps that prevent promising research from reaching the market. While India ranks among the world's leading producers of research publications and science graduates, it continues to lag in converting research into commercially viable technologies.

He attributed this disconnect to the absence of a robust translational ecosystem supporting technologies through Technology Readiness Levels (TRL) 4–7, often referred to as the "Valley of Death". At this stage, laboratory discoveries require piloting, prototyping, engineering validation, testing and scale-up before they become attractive to industry. This makes it one of the most capital-intensive and high-risk phases of innovation.

To illustrate this challenge, Mr. Gogri recounted an experience from Aarti Industries, where the company approached a research laboratory that claimed to have developed a new chemical technology. Upon evaluation, the technology consisted of only a few successful experiments conducted on a 50-gram-per-hour laboratory reactor, supported by a research paper and a patent. However, transforming this proof of concept into an industrial process would still require over a year of engineering development, pilot-scale validation and significant investment.

The example highlighted the fundamental difference between what academia often delivers and what industry ultimately requires: reliable, scalable and commercially deployable technologies.



Key Takeaways

- *India must strengthen its translational research ecosystem to bridge the gap between laboratory discoveries and commercially viable technologies.*
- *Successful innovation requires long-term collaboration among academia, industry, government, philanthropy, and investors to share risk, expertise, and resources.*
- *Developing shared translational infrastructure, including pilot plants, testing facilities, and engineering support, is critical for accelerating technology commercialisation.*
- *Research excellence should be complemented by engineering validation, prototyping, and scale-up to enable industry adoption and market readiness.*
- *Strategic investments in Technology Readiness Levels (TRLs) 4–7 can significantly reduce the "Valley of Death" and improve the success rate of deep-tech innovation.*
- *A robust translational innovation ecosystem can accelerate indigenous technology development, strengthen India's global competitiveness, and create greater economic and societal impact.*

> *Concluding his address, Mr. Gogri offered a memorable analogy, describing a strong innovation ecosystem as one that "lowers the activation energy of innovation."*
>
> *Just as a catalyst accelerates a chemical reaction without changing its outcome, an effective innovation ecosystem reduces the effort, cost and risk required to transform ideas into impactful technologies. He called upon academia, industry, government, philanthropists and alumni to work collectively in building India's translational research backbone, emphasising that shared infrastructure, patient capital and coordinated partnerships can enable thousands of deep-tech startups and position India as a global leader in technology-led innovation.*

PARTNERSHIP ANNOUNCEMENT

IIT Kanpur and Gates Foundation

A key highlight of IITK Samanvay 2026 was the announcement of a strategic partnership between IIT Kanpur and the Gates Foundation to advance translational research and indigenous diagnostic technologies.

Announced during the inaugural session in the presence of Dr. Jitendra Singh, Hon'ble Minister of State for Science & Technology and Earth Sciences, Government of India, the partnership reflects a shared commitment to translating scientific research into accessible, affordable and scalable healthcare solutions.

Through this collaboration, the Gates Foundation will support two research projects at IIT Kanpur's Department of Biological Sciences and Bioengineering, focused on developing locally developed, affordable diagnostic technologies and bridging the gap between scientific discovery and real-world healthcare applications.



The research brings together **Prof. Appu Kumar Singh, Prof. Santosh K. Misra and Prof. Amitabha Bandyopadhyay** from IIT Kanpur, and **Dr. Shailesh Kumar** from the National Institute of Plant Genome Research (NIPGR). The announcement was joined by **Ms. Archna Vyas**, India Country Director, Gates Foundation; **Mr. Suhel Bidani**, Deputy Director – Digital & AI; and **Dr. Chitra Pattabiraman**, Program Officer – Diagnostics, Infectious Diseases.

The partnership marks an important step towards strengthening India's science and innovation ecosystem, advancing indigenous technologies and improving access to affordable diagnostics for communities across the country.

EXPERT TALK 1

INNOVATION FOR INDIA'S DEVELOPMENT DECADE

by Prof. Tarun Gupta, Goldman Sachs Sustainability Chair Professor, IIT Kanpur



Prof. Tarun Gupta showcased IIT Kanpur's research ecosystem and highlighted how cutting-edge scientific discoveries are being translated into technologies with tangible societal and industrial impact. He emphasised that meaningful innovation extends beyond laboratory research and is realised only when scientific advancements are transformed into scalable solutions through collaboration among academia, industry, and government.

The presentation highlighted pioneering research across multiple domains, including advanced functional materials, healthcare technologies, sustainable energy, quantum technologies, cybersecurity, and environmental monitoring. Prof. Gupta showcased innovations such as functional materials for defence applications, advanced sensing technologies based on metal-organic and covalent organic frameworks, and biocompatible materials for next-generation medical implants. He also highlighted IIT Kanpur's contributions to regenerative medicine, where therapies for cardiac disorders, spinal injuries, bone deformities, liver diseases, and wound healing are progressing towards clinical translation.

Addressing emerging national priorities, he presented ongoing initiatives in electric mobility and quantum technologies, including the ANRF-supported Maha EV initiative, advanced charging infrastructure, vehicle-to-grid technologies, quantum computing, and sensor development under the National Quantum Mission. He also highlighted the role of C3iHub in strengthening India's cybersecurity ecosystem through indigenous technologies and startup-led innovation.

> ***Concluding the session, Prof. Gupta showcased several IIT Kanpur technologies that have successfully transitioned from research laboratories to commercial deployment, describing them as the Institute's "champions and ambassadors." These included an energy-efficient air conditioner, wearable haptic technology, affordable healthcare diagnostics, environmental monitoring systems, anti-counterfeiting technologies, and UAV platforms. Together, these innovations demonstrated IIT Kanpur's commitment to translating frontier research into affordable, scalable technologies that address national priorities while creating meaningful impact for industry and society.***



Key Takeaways

- *Frontier research creates impact only when translated into scalable technologies.*
- *Collaboration among academia, industry, and government is essential for accelerating innovation.*
- *Indigenous technologies have significant potential to address national priorities while competing globally.*
- *Emerging technologies such as AI, quantum computing, cybersecurity, and advanced materials will shape India's next phase of growth.*

Collaboration Opportunities

IIT Kanpur welcomes industry and R&D partners to collaborate on technology validation, pilot deployments, technology licensing, sponsored research, and translational innovation across its diverse research ecosystem.

PANELLISTS

Panel Session 1

EMERGING TECHNOLOGIES SHAPING INDIA'S FUTURE IN INNOVATION



Prof. Jayandharan G Rao
Dean, Research & Development,
IIT Kanpur

Moderator



Manjush Mathews
Head of Site Solutions
& Engineering, Indus Towers



Megha Khetarpal
Global Product Head
(Fraud Prevention),
TransUnion



Mohit Malik
Chief Operating Officer,
GSPANN Technologies India



Rajiv Kumar Gupta
Group President,
PB Fintech



Naresh Rana
Director, Ecosystem Development,
Strategy and Distribution Sales,
Analog Devices

EMERGING TECHNOLOGIES SHAPING INDIA'S FUTURE IN INNOVATION

The panel explored how emerging technologies are reshaping industries and creating new opportunities for India's innovation ecosystem. Speakers highlighted the need for stronger collaboration between academia and industry to accelerate technology adoption while ensuring scalability, trust, and societal impact. Discussions covered artificial intelligence, digital infrastructure, semiconductor manufacturing, financial inclusion, cybersecurity, and next-generation technologies that will define India's future economy.

Panellists emphasised that successful innovation extends beyond technology development and requires robust digital infrastructure, skilled talent, trusted data ecosystems, and supportive policy frameworks. They also highlighted the importance of developing indigenous capabilities in critical sectors such as semiconductors, aerospace, defence, and AI to strengthen India's technological self-reliance.

Key Takeaways

Innovation should begin with solving real-world problems rather than deploying technology for its own sake.

Trust, data quality, security, and responsible AI will be critical enablers of the next generation of digital services.

India's digital public infrastructure provides a strong foundation for scaling AI-driven innovation across sectors.

Indigenous semiconductor design, electronics manufacturing, and defence technologies are essential for

Industry and academia must work together to develop future-ready talent equipped with skills in AI, cybersecurity,

Emerging technologies must be developed with inclusivity, sustainability, and societal impact at their core.



EXPERT TALK 2

THE FUTURE OF INCLUSIVE HEALTHCARE

by Prof. Anil K. Lalwani, Dean, Gangwal School of Medical Sciences & Technology, IIT Kanpur

Prof. Anil K. Lalwani presented a compelling vision for building an inclusive healthcare ecosystem in India by ensuring that quality healthcare is available, accessible, and affordable for all. He highlighted the significant challenges confronting India's healthcare system, including inadequate infrastructure, workforce shortages, unequal distribution of healthcare facilities, and the high cost of advanced medical treatments, which continue to limit access for large sections of the population.



Addressing the country's evolving disease burden, he emphasised the need to strengthen preventive healthcare while improving the diagnosis and management of chronic diseases, without losing focus on infectious diseases and maternal and child health. He underscored the transformative potential of digital health technologies, telemedicine, artificial intelligence, and affordable diagnostics in bridging healthcare disparities between urban and rural India.

Highlighting IIT Kanpur's multidisciplinary approach to healthcare innovation, Prof. Lalwani shared how the Gangwal School of Medical Sciences and Technology integrates medicine, engineering, and translational research to develop affordable and scalable healthcare solutions tailored to India's needs. He showcased several indigenous innovations, including cost-effective cardiac assist devices, minimally invasive cardiovascular technologies, smart mobility solutions, advanced imaging systems, and medical implants, illustrating how research-driven MedTech can improve healthcare accessibility while reducing dependence on imported technologies.

> ***He concluded by emphasising that sustained collaboration among academia, industry, healthcare providers and policymakers is essential to accelerate the development, validation and adoption of indigenous medical technologies.***



Key Takeaways

- *Healthcare innovation must be available, accessible, and affordable.*
- *Indigenous MedTech can reduce import dependence while improving patient outcomes.*
- *Digital health and AI have the potential to bridge healthcare disparities.*
- *Collaboration across medicine, engineering, and industry is critical for accelerating healthcare innovation.*

Collaboration Opportunities

The Gangwal School of Medical Sciences & Technology (GSMST) invites CSR, philanthropic, healthcare, and industry partners to collaborate on research, translational healthcare technologies, clinical validation, infrastructure development, and affordable MedTech solutions that improve access to quality healthcare.

PANELLISTS

Panel Session 2

HEALTHCARE INNOVATION FOR BHARAT: ADVANCING ACCESSIBLE & SCALABLE MEDTECH SOLUTIONS



Prof. Amitabha Bandyopadhyay
Professor, Biological Sciences & Bioengineering, IIT Kanpur

Moderator



Dr. Chitra Pattabiraman
Program Officer - Diagnostics, Infectious Diseases, Gates Foundation



Mr. Manoj M. N.
Vice President (R&D), Bigtec Labs, Molbio Diagnostics



Mr. Paritosh Arora
Managing Director, Translumina Therapeutics India



Mr. Ravi Valia
Director - Government Affairs & Market Access, NMedtronic



Dr. Shridevi Venkataramani
Head - R&D Capabilities, IPDO & Biologics, Dr. Reddy's Laboratories



Dr. Vibhav Garg
President - Global Government Affairs, Meril Group of Companies



Mr. Vivek Veerbhan
Head - Regulatory, Government Affairs & CSR, B. Braun Medical (India) Pvt. Ltd.

HEALTHCARE INNOVATION FOR BHARAT: ADVANCING ACCESSIBLE & SCALABLE MEDTECH SOLUTIONS

The panel examined how India's healthcare ecosystem can leverage indigenous innovation to make quality healthcare more accessible, affordable, and scalable. Bringing together leaders from healthcare, industry, academia, and regulatory bodies, the discussion focused on strengthening collaboration across the MedTech value chain; from research and product development to clinical validation, regulation, manufacturing, and large-scale deployment.

Panellists agreed that achieving equitable healthcare requires an integrated innovation ecosystem where engineers, clinicians, researchers, regulators, industry, and policymakers collaborate from the earliest stages of product development. The discussion also highlighted the growing importance of regulatory preparedness, industry engagement, and patient-centric design in accelerating the adoption of indigenous medical technologies.

Key Takeaways

Affordable, accessible, and available healthcare must remain the guiding principle for MedTech innovation.

Collaboration between academia, industry, healthcare providers, regulators, and investors is essential to translate research into clinically validated products.

Regulatory planning should begin during product ideation to accelerate commercialisation and ensure patient safety.

India must strengthen indigenous manufacturing to reduce dependence on imported medical devices and build global trust in Indian MedTech.

Industry internships, dual mentorship, and problem-driven research can help bridge the gap between academia and healthcare needs.

Government initiatives such as PRIP, MedTech Mitra, and Centres of Excellence can play a catalytic role in strengthening India's MedTech ecosystem.

The long-term vision is to build a globally competitive MedTech sector that delivers innovative healthcare solutions for Bharat while contributing to national healthcare resilience.



EXPERT TALK 3

COLLABORATIVE INNOVATION: FROM RESEARCH TO REAL-WORLD IMPACT

by Prof. Sachchida Nand Tripathi, Dean, Kotak School of Sustainability, IIT Kanpur

Prof. Sachchida Nand Tripathi highlighted the pivotal role of sustained collaboration and long-term investments in addressing complex sustainability challenges. He emphasised that transformative solutions emerge when academia, industry, government, and philanthropic organisations work together to translate research into technologies that create measurable societal impact.

Underscoring the importance of CSR and philanthropic support, Prof. Tripathi noted that long-term investments are critical for advancing frontier research, building scientific capacity, and accelerating the development of innovative solutions for environmental and societal challenges. He emphasised that strengthening India's research ecosystem requires sustained partnerships that extend beyond funding to include knowledge sharing, capacity building, and collaborative innovation.



Drawing on initiatives led by the Kotak School of Sustainability, he showcased IIT Kanpur's efforts to develop indigenous air quality monitoring technologies that make environmental monitoring more affordable, scalable, and accessible. He highlighted the establishment of a network of nearly 2,000 air quality monitoring nodes across multiple states, enabling hyperlocal monitoring and generating reliable environmental data to support evidence-based policymaking and targeted interventions.

Prof. Tripathi also demonstrated the transformative potential of artificial intelligence in sustainability and urban development. He illustrated how AI-driven analytics can identify pollution hotspots, improve environmental decision-making, and enhance public transportation through intelligent route optimisation, digital ticketing, and operational efficiency. These examples reflected the growing convergence of advanced technologies with sustainability research to address real-world challenges.

Concluding the session, Prof. Tripathi underscored the importance of nurturing talent and strengthening India's innovation ecosystem through collaborative research, mentoring, and skill development. He reiterated that long-term partnerships among academia, industry, government, startups, and philanthropic organisations are essential for accelerating indigenous technology development and translating scientific research into scalable solutions that contribute to sustainable and inclusive national development.



Key Takeaways

- *Long-term CSR and philanthropic support is essential for advancing sustainability research.*
- *AI and indigenous technologies can enable evidence-based environmental decision-making.*
- *Collaborative innovation accelerates the translation of research into societal impact.*
- *Capacity building and talent development are fundamental to building a resilient innovation ecosystem.*

Collaboration Opportunities

IIT Kanpur welcomes partnerships with CSR partners, industry, government agencies, and philanthropic institutions to support cutting-edge research, technology development, capacity building, and innovation that address pressing societal and national priorities. Through collaborative research, sponsored projects, translational initiatives, and technology deployment, partners can help accelerate the journey from ideas to impact.

PANELLISTS

Panel Session 3

IMPACT MULTIPLIERS: TECHNOLOGY AND RESEARCH FOR GREATER GOOD



Prof. Bishakh Bhattacharya
Professor, Mechanical Engineering,
IIT Kanpur

Moderator



Ms. Akshita Shukla
Head - CSR & ESG,
PI Industries



Dr. Antony Nellissery
Head - Group CSR,
Sterlite Electric, Resonia & Serentica



Ms. Bhawna Kirpal Mital
CHRO & Head - Admin,
CSR & Corporate Communication,
Hero Future Energies



Mr. Bibhuti Ranjan Pradhan
Executive Director
(CD & CSR),
IndianOil



Mr. Pawan Kumar
Co-Lead, Family
Philanthropy,
Sattva

IMPACT MULTIPLIERS: TECHNOLOGY AND RESEARCH FOR GREATER GOOD

The panel explored how research can be effectively translated into scalable solutions that create measurable societal impact. The discussion brought together leaders from academia, CSR, industry, and the social sector to examine the role of collaboration, implementation, and long-term partnerships in bridging the gap between innovation and impact.

Panellists emphasised that research achieves its greatest value only when supported by strong implementation ecosystems. They highlighted the importance of CSR, philanthropy, government support, and industry partnerships in enabling technology adoption, strengthening last-mile delivery, and ensuring that innovations reach the communities they are intended to serve.

Key Takeaways

Research translation requires strong implementation pathways in addition to scientific excellence.

CSR and philanthropic investments play a critical role in scaling research-driven innovations.

Simple, context-specific technologies often create greater societal impact than highly complex solutions.

Community engagement, local capacity building, and partnerships with government agencies are essential for successful implementation.

Sustainable impact is achieved when research, policy, industry, and communities work together throughout the innovation lifecycle.

The success of innovation should ultimately be measured by its ability to improve lives and create inclusive, long-term societal impact.



TECHNOLOGY SHOWCASE

The Technology Showcase brought together IIT Kanpur's research, innovation and entrepreneurial ecosystem, enabling meaningful engagement among researchers, innovators, startups and industry leaders. As the experiential centrepiece of IITK Samanvay 2026, it presented indigenous technologies and translational research across multiple disciplines, giving participants a first-hand view of how the Institute's research is progressing towards deployable technologies and industry-ready solutions.

21 exhibitors representing IIT Kanpur's departments, schools, research centres and startup ecosystem showcased research-driven technologies with strong commercialisation potential. Innovations spanned 10 strategic technology domains: Artificial Intelligence & Intelligent Systems; Aerospace & UAVs; MedTech & Healthcare; Cybersecurity; Robotics & Automation; AgriTech; Sustainability & Clean Energy; Advanced Materials; Space & Deep Technologies; and Telecom & Private 5G.

Innovations spanned 10 strategic technology domains:

Artificial Intelligence & Intelligent Systems

Aerospace & UAVs

MedTech & Healthcare

Cybersecurity

Robotics & Automation

AgriTech

Sustainability & Clean Energy

Advanced Materials

Space & Deep Technologies

Telecom & Private 5G



The showcase featured indigenous technologies developed to address industrial and societal challenges, demonstrating IIT Kanpur's multidisciplinary approach to innovation.

Key Innovations

- ***Autonomous quadruped robots and AI-enabled governance solutions from the Wadhwani School of AI & Intelligent Systems.***
- ***Hridyantra and indigenous Percutaneous Mechanical Circulatory Support (pMCS) devices for advanced cardiac care.***
- ***C3iHub's 24×7 Security Operations Centre (SOC) for indigenous cyber threat detection and response.***
- ***SCANXT's AI-, spectroscopy-, and IoT-enabled precision agriculture solutions.***
- ***Innovations in drug discovery, cognitive assessment, energy storage, private 5G, and space technologies.***
- ***The Department of Aerospace Engineering's novel flying wing model, bio-inspired UAVs (ornithopter and manta ray), and GPU-based high-fidelity Computational Fluid Dynamics (CFD) software.***
- ***SATHEE (Self Assessment, Test and Help for Entrance Exams), an AI-powered multilingual learning platform providing free, personalised learning resources and practice assessments for competitive examinations.***









Beyond technology demonstrations, the showcase enabled direct interactions between industry leaders and researchers, creating opportunities for

Sponsored research and joint R&D

Technology validation and pilot deployments

Technology licensing and commercialisation

Startup partnerships and industry collaborations







Key Takeaways

The Technology Showcase reflected IIT Kanpur's commitment to taking innovation beyond the laboratory by translating cutting-edge research into scalable technologies, fostering industry partnerships, and advancing indigenous solutions that contribute to national development and societal impact.

THE WAY FORWARD

IITK Samanvay 2026 reinforced the importance of bringing research, industry expertise and institutional partnerships together to address India's emerging challenges.

The conversations initiated at Samanvay present an opportunity to take these collaborations forward, translating research into technologies and solutions that can be developed, validated and deployed at scale.

PARTNER WITH IIT KANPUR

IIT Kanpur welcomes partnerships with organisations across industry, government and philanthropy through:

- Corporate Social Responsibility initiatives
- Sponsored research and joint R&D
- Technology licensing and commercialisation
- Research infrastructure and endowed chairs
- Student fellowships and innovation challenges
- Translational research and technology deployment

From healthcare and sustainability to AI, cybersecurity, advanced manufacturing and quantum technologies, there are several opportunities to collaborate with IIT Kanpur's research and innovation ecosystem.

> ***Together, let's build enduring partnerships that accelerate innovation, empower research and create an impact that is Greater Than Us.***

TOGETHER, FOR THE FUTURE.

To explore collaboration opportunities with IIT Kanpur, please reach out to:

Mr Rajat Sharma

Vice President - Development,
IIT Kanpur Development Foundation

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Let's work together to transform ideas into impact and create solutions that benefit India and the world.

HONOURING OUR PARTNERS



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