

DEFENCE

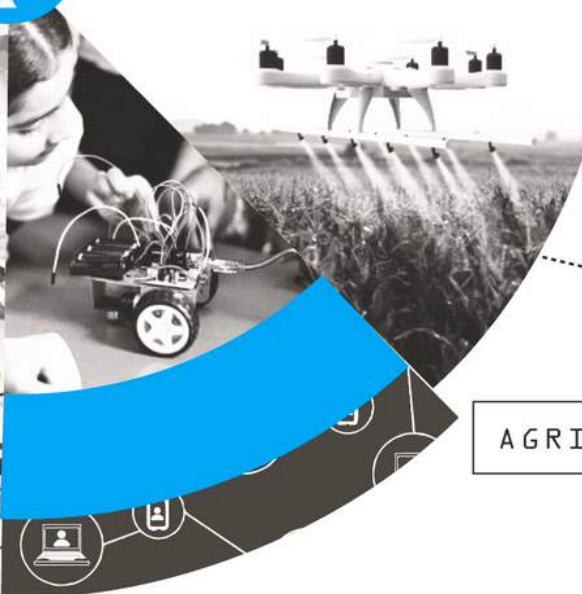


INDUSTRY X_{1.0}

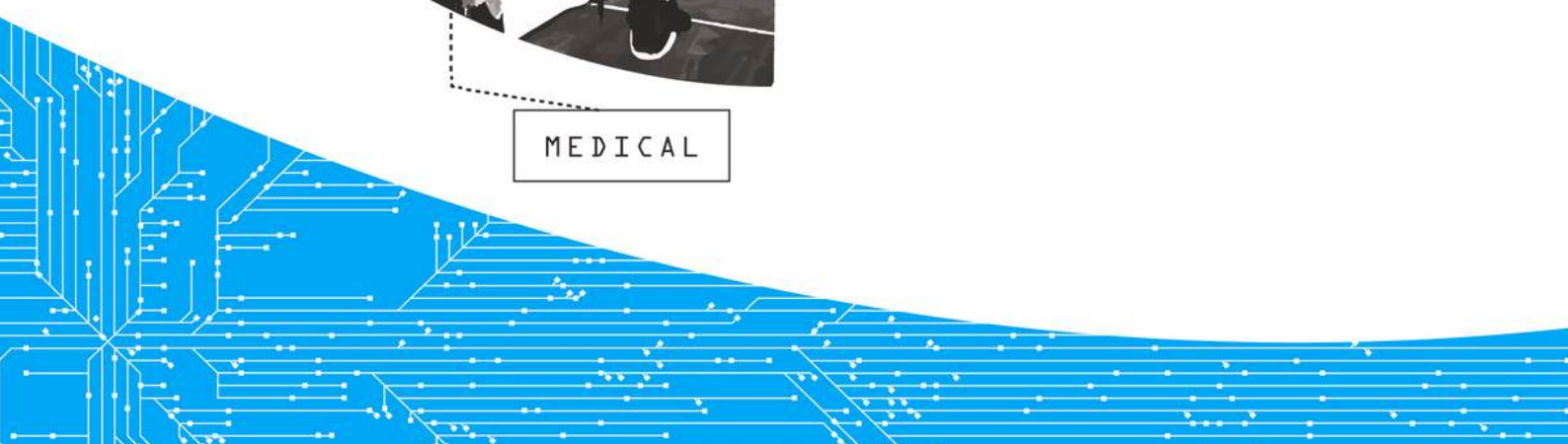


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AGRICULTURE



MEDICAL



Message from Director, IIT Delhi

On behalf of IHFC, it gives me immense pleasure to wish you a happy New Year. We hope 2025 will be full of promise and excitement. We, at IHFC, have been seeing the initiation of startups and new ideas in medical cobotics. Our Medical Cobotics Centre and the human patient simulation provides many opportunities for learning, innovation and new ways to combine new ideas in medicine and robotics to revolutionize healthcare. Our initiatives in our drone technology park at our Sonipat campus can help catalyse and support startups in drone technology and find new applications for societal impact. IHFC has established new partnerships with AIIMS, Marico, Google, Dalvcot, ITU of the UN and also other technology startup hubs. We hope that we will progress in our mission of creating an enabling ecosystem where we can support cost-effective ideas for cobotics that makes a difference in people's lives.



Prof. Rangan Banerjee
Director, IIT Delhi

Message from Director, NM-ICPS, DST, Govt. of India

As we step into 2025, it is a moment of pride to reflect on the remarkable progress that NM-ICPS has made since its inception, with the hubs operating at full capacity and contributing significantly to India's vision of Atmanirbhar Bharat. IHFC exemplifies this progress by advancing R&D, start-ups, Corporate Social Responsibility (CSR), and education, while fostering innovation and self-reliance. IHFC's collaboration with IIITD for the Medical Cobotics Centre (MCC), partnerships with AIIMS and Dalvcot, and engagement with industry leaders like Google underscore its efforts to deliver impactful technological advancements. I extend my best wishes to IHFC for continued progress and success in the year ahead.



Dr. Ekta Kapoor
Director, NM-ICPS
Department of Science &
Technology (DST),
Government of India



Message from Project Director, IHFC

It gives me great pleasure to see the enormous strides IHFC has taken and the milestones achieved over the last four years. The new year, 2025, is poised to be a year of even greater progress, establishing IHFC as a thought leader in deep tech and a name to reckon with for all industry and partner solutions in robotics and cobotics.

At IHFC, we do things “The IHFC Way” — not run-of-the-mill, but unique and innovative. Whether it is the way we impart skills and knowledge of deep tech and STEM, empowering individuals from children to adults through immersive methods of learning like gamification, or understanding market requirements to provide technology solutions through our R&D projects to industry — our approach is always holistic and 360 degrees. Even when we incubate startups, our vision is to handhold young ventures and help them scale to become unicorns. This focus will be strengthened this year with the establishment of CiC (Co-Innovation Centers) in collaboration with renowned universities across India. Our mission is to collaborate and connect, ensuring equal opportunities for all to succeed. The year 2025 will also mark a year to the opening of our Drone Technology Park (DTP) at our Sonipat campus. This center of excellence for drone technology will open its doors to the world, inviting everyone to witness and utilize its state-of-the-art facilities.

As we move forward, we remain committed to our core principles: Collaborate, Create, Connect, Communicate, Convert, and Convince.

Wishing everyone a very happy and prosperous new year! Jai Hind!



Prof. Subir Kumar Saha

Project Director, IHFC
Professor, Dept. of Mechanical Engineering, IIT Delhi

Message from CEO, IHFC

The year 2024, can proudly stand apart as one where IHFC, as the technology innovation hub of IIT Delhi, made significant strides in fostering innovation and entrepreneurship. We’ve had the privilege of working on a diverse range of high-impact events whole year positioning ourselves as a people and technology driven organisation. It bolstered the fact that IHFC is a technology leader with some of the best start ups and R&D projects in its eco-system. We launched GP 2.0 to ensure we have some best in class technologies produced as a part of our R&D initiatives. We surpassed incubation of 30 start-ups this year. This year has seen a promising start to many collaborations in R&D projects between academia and industry/start-ups, as well as technology transfer.

One of the most significant achievements this year was our collaboration with ITU and the Department of Telecommunications (DoT) on the Robotics for Good Youth Challenge, We also launched new programs such as the Research & Innovation Showcase for Entrepreneurs (RISE) under the READY Program, specifically designed to empower students and foster entrepreneurial spirit. Additionally, our collaboration with Google for Startups further strengthened our ecosystem and provided invaluable support to upcoming ventures.

At IHFC, our core vision has always been to support all with technology and hand hold startups and transform research and development projects into successful entrepreneurial ventures. Today, we are proud to host 30+ startups in our hub, with plans to cross 50 in the coming year.

Looking ahead to 2025, our vision is to expand our reach even further—collaborating with both national and international agencies, incorporating more R&D projects into our ecosystem, and accelerating the growth of startups. We aim to scale IHFC’s impact by setting up 10 Co-Innovation Centres in equal number of selected universities/institutes in the country. Look forward to many more successful collaboration and making a meaningful impact!

Wishing everyone a very happy new year 2025 !!



Mr. Ashutosh Dutt Sharma

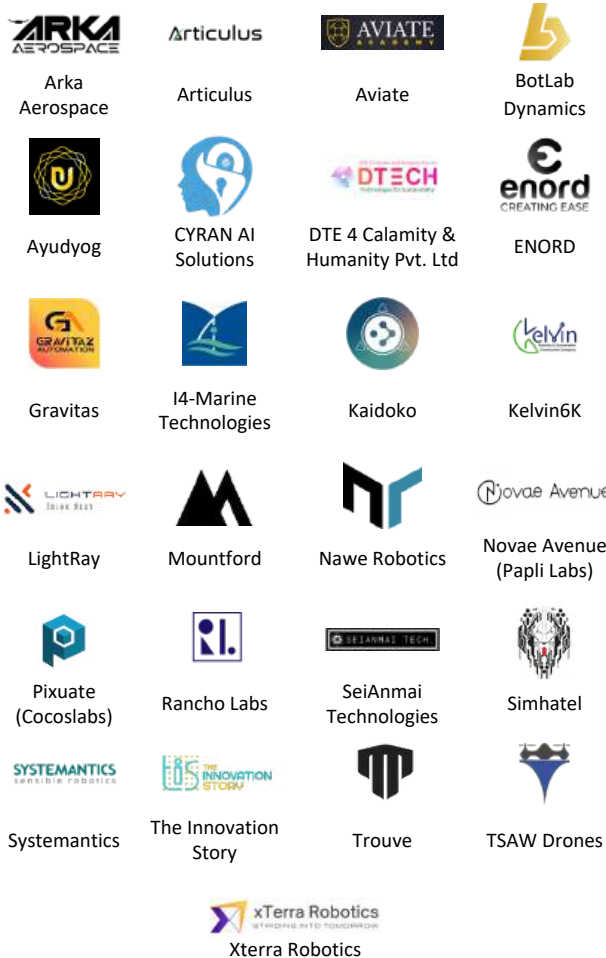
Chief Executive Officer
(CEO) IHFC, IIT Delhi

About IHFC

India's advancements in robotics, driven by progress in sensing, computing, and algorithms, are transforming sectors like agriculture, healthcare, defense, and industry. From drones optimizing farming to robots assisting in surgeries, these technologies enhance productivity, safety, and quality of life. Recognizing this potential, the I-Hub Foundation for Cobotics (IHFC) was established in June 2020 at IIT Delhi under the National Mission on Interdisciplinary Cyber-Physical Systems (NM-ICPS), supported by the Department of Science and Technology (DST), Government of India.

IHFC integrates academia, government, and industry, focusing on Medicine, Agriculture, Industry, and Defence. Its initiatives span R&D, entrepreneurship, skills training, and global collaborations with organizations like NSF (USA), NEDO (Japan) and ODENSE Robotics (Denmark). Through its READY (Research, Entrepreneurship, and Development for You) program, IHFC supports startups like SeiAnmai Technologies, which is progressing toward commercialization. By fostering innovation and collaboration, IHFC is positioning India as a leader in robotics and cobotics.

Startups Incubated & Accelerated



Grand Projects

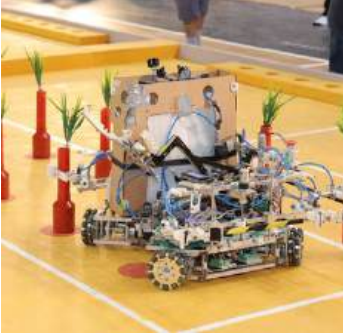
- Rehabilitation Robotics
- Human-Robot Interaction
- Healthcare Robotics
- Industry 4.0 & Beyond
- Drone Applications
- Intelligent Sensing and Secure Communication
- Nanorobotics
- Agribotics

CSR Initiatives

Nurture Program

IHFC has successfully trained 30K students nationwide, focusing on uplifting students in the remotest parts of the country through cutting-edge technologies like AI, Robotics, Drones, and Medical Simulation. Covering 400 institutes and partnering with 20 organizations, the initiative ensured 80% school-level participation and 40% representation from girls, empowering them with future-ready skills.

HIGHLIGHTS



DD ROBOCON 2024

IHFC served as the Organisers and knowledge partners for DD Robocon 2024, hosted with Prasar Bharati, where Nirma University emerged victorious, earning a spot in the IHFC-READY Program to advance their entrepreneurial journey.

“**EPIC SHOWDOWN OF INDIA'S TOP ENGINEERING MINDS**”

-The Economic Times

“**ROBOTS TAKE OVER AT SCHOOL CONTEST, STUDENTS SHOWCASE SKILLS IN FIRST CHAMPIONSHIP**”

-Telegraph India



IRC 2024

IHFC, in collaboration with CISCE, organized the one of its kind Inter-School Robotics Championship 2024, with 2000+ students and mentors showcasing their skills on an industry-themed challenge.



ROBOTICS FOR GOOD YOUTH CHALLENGE

IHFC hosted and organised India's Robotics for Good Youth Challenge with ITU, showcasing youth innovation; with participation from 18 states across India. Winners will represent India in Geneva 2025.

“**INDIA'S TOP STUDENTS SELECTED FOR AI FOR GOOD GLOBAL SUMMIT, 2025**”

PARTNER SCHOOLS AND INSTITUTIONS



Asia-Pacific
Broadcasting
Union



PARTNER TECHNICAL INSTITUTES AND UG COLLEGES



FOSTERING INNOVATION THROUGH COLLABORATION

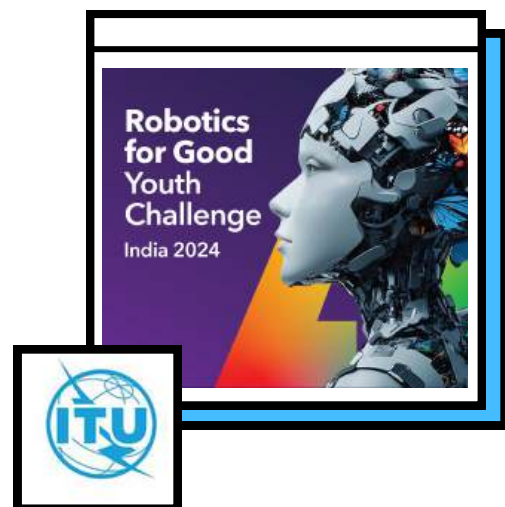


Google

IHFC partnered with Google for Startups to host the AI Academy India Bootcamp, empowering startups with AI tools, mentorship, cloud credits, and funding opportunities to accelerate growth and innovation.

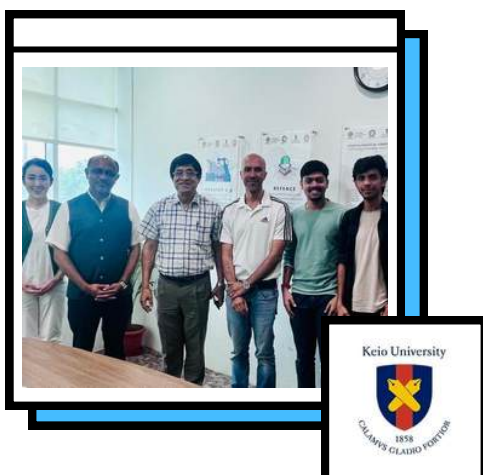
ITU

IHFC collaborated with ITU to host the Robotics for Good Youth Challenge India 2024, guiding young talents in disaster response robotics. The winners will represent India at the AI for Good Global Summit (2025) in Geneva.



Keio University

IHFC and Keio University, Japan, are advancing their collaboration on robotics for disaster response, driving innovative solutions for emergency management and supporting the SDGs.



Latest Tech Advancement Partnerships



ALIMCO

ALIMCO, which is known for manufacturing affordable assistive devices, is testing and validating the ENRICH Prosthetic Arm, developed by IHFC's Prof. Nayan Kakoty, for commercialization.



RESLINK

Reslink, an IIT Delhi student startup, is collaborating with IHFC for tech transfer and market deployment of the BLDC motor developed by Prof. Amit Jain, IHFC PI at IIT Delhi.



Technology
Innovation Hub
of IIT Delhi



GOA UNIVERSITY, PARACHUTE KALPAVRIKSHA, AND ICAR-CCARI

IHFC's Agrirobotics Grand Project, in partnership with Goa University, Parachute Kalpavriksha, and ICAR-CCARI, exemplifies industry-academia collaboration.



DALVKOT UTILITY ENTERPRISES

IHFC signed an MoU with Dalvkot Utility Enterprises to mentor medtech startups, foster business models, and provide joint funding.



AIIMS

IHFC and AIIMS SET Facility (New Delhi) signed an MoU, uniting engineering and medical expertise to drive innovations at the Medical Cobotics Centre.

MONTHLY SPOTLIGHTS



JULY

RISE Program at MCC

IHFC's RISE Program featured groundbreaking MedTech startups like Articulus Surgical, HyBionics, Neuro Drishti, and SeiAnmai Technologies, showcasing innovative solutions and success stories.

IHFC CEO's IVLP Visit to the US

Ashutosh Dutt Sharma (CEO, IHFC) strengthens US-India collaboration on emerging tech through the International Visitors Leadership Program (IVLP).



AUGUST



SEPTEMBER

Funders and Founders Mixer

IHFC, in partnership with Change Engine, hosted an event to inspire, mentor and give technology support to young startups. The event featured AI startups Kaidoko, RecurClub, and Novae Avenue, along with discussions on the future of AI.

IHFC at IMC/ITU

IHFC showcased its incubated startups Novae Avenue, Papli Labs, and DTE 4 CALAMITY AND HUMANITY at IMC, with Prof. Subir Kumar Saha discussing AI, robotics, and STEM education impacts. This platform connected these startups with industry and government.

OCTOBER



NOVEMBER

IHFC at TIPS 5.0

IHFC showcased its innovative startups, including Articulus Surgical, Pixuate, Cocoslabs Innovative Solutions, and Kelvin6k, at TIPS 5.0, highlighting collaboration and groundbreaking technologies under the NMICPS mission.



Faculty Development on Emerging Technology for UBTE

IHFC conducted a Faculty Development Program on Emerging Technologies for UBTE faculty at IIT Delhi in early December. Industry expert Bhaskar Choudhuri, Executive Director, PwC Technology Consulting, was invited.

DECEMBER



Monthly COBOTALKS

EVERY SECOND WEDNESDAY

"Exploring robotics innovations, industry trends, and how technology is shaping the future of work and life."

 <p>12th June, 2024 40</p> <p>Mr. Anish Batra (Co-founder, Kaidoko)</p> <p>Title: Telerobotic Ultrasound: Will it be a game changer in medicine?</p>	 <p>10th July, 2024 41</p> <p>Dr. Tomohiro Shibata & Mrs. Satoko Shibata</p> <p>Title: Technology Assisted Care in Japan & Living with Robots: A New Era of Human-Robot Coexistence</p>
 <p>14th August, 2024 42</p> <p>Mr. Rajesh Kumar (Principal Scientist, Robotics & AI, Addverb)</p> <p>Title: Future of Modern Robotics at Addverb: Merging Planning; Perception and Control into one</p>	 <p>11th September, 2024 43</p> <p>Dr. Pradeepkumar Sundarraj (Founder & CEO, Kelvin6k)</p> <p>Title: Robotic and Sustainable 3D Construction</p>
 <p>9th October, 2024 44</p> <p>Mr. Prathvi Palekar (Founder & CTO, Pixuate)</p> <p>Title: The future of AI Agents</p>	 <p>27th November, 2024 45</p> <p>Mr. Ranit Chatterjee (CEO & Co-founder, RIKA India)</p> <p>Title: Robot with a Cause- Cobra: Snake Robot for Disaster Management & Response</p>
 <p>11th December, 2024 46</p> <p>Mr. Mithun Kumar S R (Engineering Manager- Google Maps)</p> <p>Title: Leveraging LLMs for SaaS & Enterprise Tech: Industry Use Cases & Best Practices</p>	

Watch More on YouTube

Scan the QR code to visit our YouTube channel & watch all the insightful Cobotalks sessions, featuring top experts showcasing their groundbreaking ideas in collaborative robotics.



IHFC's Spotlight Moments



Ayudyog Wins Young Innovation Award for AI-Spectroscopy Solutions

IHFC-incubated Ayudyog Pvt. Ltd. won the Young Innovation Award at the Tata Social Enterprise Challenge, for pioneering AI-spectroscopy solutions in quality control across natural products, food, and pharmaceuticals.



Snake Robot for Disaster Response Showcased at ITU WTSA

IHFC startup founder Ranit Chatterjee of DTE 4 CALAMITY & HUMANITY, a key speaker at ITU WTSA, showcased his innovative snake robot for disaster response.



ENRICH Prosthetic Hand Prototype Handed Over to ALIMCO

At the AI for Healthcare event at MCC, Prof. Nayan M. Kakoty handed over the EMG Controlled Prosthetic Hand (ENRICH) prototype to ALIMCO, marking a significant milestone on the path to commercialization.

IHFC's Capability Building Collaborations



Uttarakhand Board of Technical Education (UBTE): Curriculum Revision

IHFC is collaborating to revamp the UBTE diploma engineering curriculum by integrating academic and industry insights. This initiative will bridge skill gaps, enhance employability, and impact 8,000 students and 400 faculty annually, equipping them with skills for emerging markets.



Tripartite agreement between IHFC, SSR-GSP and MPSDP

IHFC has partnered with Sant Shiromani Ravidas Global Skills Park and Madhya Pradesh Skills Development Project to provide consultancy for advanced one-year courses in Augmented and Virtual Reality, Animation & Motion Graphics, and Gamification under the Center for Occupational Skills Acquisition-1 (COSA-1).

GOVERNMENT AND CORPORATE
COLLABORATIONS



गृह मंत्रालय
MINISTRY OF
HOME AFFAIRS



eClerx

Co-Innovation Centres (CiC)

The Co-Innovation Centres (CiC) are being established to foster entrepreneurship and support startups in Deep Tech domains like Robotics, AI, Machine Learning, and IoT. IHFC has partnered with 10 Institutes across the country to set up these centres. CiC aims to empower aspiring entrepreneurs and students to drive new product development, translate research into impactful solutions, and build high-potential startups in emerging technology areas.



IHFC has welcomed 14 new students under its READY Program. The READY cohort was inducted through an immersive program WeLD (We Learn through Discussion). These sessions enable interactive learning, knowledge-sharing and feedback. IHFC engages M.Sc Cognitive Science students at IIT Delhi via a fellowship program. The fellowship provides opportunities to learn and contribute towards employability skills.



READY PROGRAM IS A 6 MONTH PRE-SEED INCUBATION PROGRAM FOR HI-POTENTIAL IDEAS IN ROBOTICS, ARTIFICIAL INTELLIGENCE DRONE AND AUTONOMOUS SYSTEMS AND ALLIED AREAS.



01 Year 2024/2023/2022 (Final Year Graduates)

02 Be a part & network with IHFC's IIT Delhi deep tech startup ecosystem

03 Create deep tech innovations with IHFC READY Program

04 Stipend and Financial assistance of upto INR 5 Lakhs for high potential ideas



Scan to know more



India-Japan Science and Technology
Partnership



Startup Ecosystem and Investors
Networking Meet at PHD, New Delhi



CII Annual Summit on
Industry-Academia



Team IHFC



ITU visiting IHFC



Life-Saving Skills Training by MCC and Vidyanta



MoU signed with Femacare



Botlab Dynamics' Meeting with President
Smt. Droupadi Murmu

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Neha Gupta

Akshay Mangal
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Articles contributed by IHFC's
R&D, ERT, Startup, CiC and
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Visit our website www.ihfc.co.in or scan the QR code to explore more about our diverse initiatives and how you can be part of our journey. Join us as we pave the way for a bold and dynamic future.

