



TechnoPark @iitk



"Where curious minds converge to innovate"

INNOVATE. INSPIRE. IMPACT.



BUILDING
TOMORROW
TOGETHER



WHY TECHNOPARK?

Your Partner in Innovation, Research & Growth

Technopark@iitk provides industry partners with world-class infrastructure, expert support and a vibrant innovation ecosystem to solve real-world challenges and drive impactful collaboration.

KEY BENEFITS FOR INDUSTRY PARTNERS



1 WORLD-CLASS RESEARCH & INFRASTRUCTURE



Office & Lab space for R&D activities



Access to state-of-the-art Central Research Facilities (CRF)



Identification of high-end lab infrastructure



Access to IITK Library for research & reference



2 EXPERTISE & FACULTY COLLABORATION



Define & articulate technical challenges



Domain expert identification



Interface with IITK faculty



Sponsored and Consultancy Research Projects



3 TALENT, INNOVATION & KNOWLEDGE EXCHANGE



Access to IIT Kanpur's students and emerging innovators



Engagement with students through mentorship



Opportunities to participate in special interest group (SIG) events



Access to courses, workshops & seminars for skill upgradation



4 GROWTH & IMPACT ENABLEMENT



Advice on government funding schemes



Access to commercialization & innovation pathways



Guidance on licensing & IP protection



Opportunity to engage in industry-academia events & networking

IIT Kanpur Research and Technology Park Foundation, operating as Technopark@iitk, was established in 2019 to foster industry-academia-government collaboration for indigenous technology innovation.

Spread across 2.5 lakh sq. ft., Technopark@iitk hosts companies that have set up their satellite R&D offices, Centres of Excellence (CoEs) and Defence Testing Labs, creating a vibrant ecosystem for collaborative R&D and technology-driven growth.

What distinguishes Technopark@iitk is not merely the infrastructure we offer, but the collaborative culture we cultivate: one where researchers, entrepreneurs, corporates, faculty, and students collectively solve real-world challenges with speed, scale, and purpose!

OBJECTIVES



01

Increase & accelerate R&D collaborations between IIT Kanpur and industry.



02

Strengthen industry-student engagement.



03

Identify and promote potential technologies developed at IITK for lab-to-market transition.



04

Facilitate the creation of specialized labs for industrial needs.



05

Train and upskill resources through courses and workshops.



06

Develop an R&D ecosystem for MEMEs.

VISION



To foster industry-academia collaboration by co-developing cutting-edge technologies and innovations in line with national priorities and knowledge-based wealth creation by leveraging the core competence of IIT Kanpur.

Technopark@iitk enables an easy access to the rich ecosystem of **research and innovation at IIT Kanpur**



20 + 3

Departments Academic Schools



570+

Faculties



9500+

Students



3

Interdisciplinary Programs



₹1,540+ Cr

Research funding since 2023



CRFs

State-of-the-Art Central Research Facilities



1001

Patents Granted

₹9 Cr

Revenue Generated



500+

Startups Mentioned

Technopark@iitk facilitates and accelerates Industry-IIT Kanpur collaborations to co-develop advanced and futuristic technology solutions, addressing current and future challenges of society and the nation.

FOCUS SECTORS



Defence & Aerospace



Pharma & Healthcare



Deep Tech



Agriculture



Electronics



Cybersecurity



Quantum Computing



Chemicals

MODES OF ENGAGEMENT

- Sponsored Research Projects
- Consultancy Projects
- Royalty paid to IITK for using IITK IP
- Sponsor Ph.D / M.Tech / M.S. Students
- Joint Ph.D. / M.Tech / M.S. / M.Sc. / B.Tech Guidance
- Full-time & Part-time Employment for B.Tech / M.Tech / M.S. / Ph.D. students
- Joint Publication and Patent
- Instituting Chair Professor
- Educational Infrastructure Endowment
- Supporting a Technical Event





INNOVATORS

Residential Memberships enabling companies to set up their R&D offices within the research park.



PIONEERS

Virtual Annual Memberships enabling companies to resolve their R&D needs without setting up offices.

INDUSTRY ENGAGEMENT MODELS



ENABLERS

Centers of Excellence and Common Testing Labs established to strengthen the overall R&D ecosystem.



CONSORTIA

Sector-wide consortia to promote high-end industrial research through bi-annual meetings with expert groups.

CENTERS OF EXCELLENCE



01



Airwat Research Foundation

Airwat Research Foundation is a Center of Excellence in Artificial Intelligence for Sustainable Cities, initiated by the Ministry of Education under the mission "Make AI in India, Make AI work for India". The center focuses on developing AI-driven technologies for air quality, urban mobility, flood forecasting, critical infra structure monitoring and energy optimisation.

02

NMTronics CoE for Electronics Manufacturing and Skills Development

NMTronics Center of Excellence for Electronics Manufacturing and Skills Development is planned to facilitate development in semiconductor technologies, embedded systems, Internet of Things (IoT), and Artificial Intelligence (AI). This center will generate support for IIT Kanpur's courses; seminars, provide advanced certification programs for industry professionals, and serve as a New Product Introduction (NPI) site for startups and small businesses in the field of electronics manufacturing.



03



CI3Hub - Cybersecurity & Cybersecurity of Cyber-physical Systems

Cybersecurity and Cyber Security of Cyber-physical Systems (CI3) Hub, under the National Mission on Interdisciplinary Cyber-Physical Systems, drives translational research in cybersecurity, supports deep-tech startups, and plays a pivotal role in protecting the national cyberinfrastructure. Recently, CI3Hub has been upgraded to Technology Translational Research Park (TTRP) to foster ecosystems that enable the translational of research into market-ready solutions.

CENTERS OF EXCELLENCE



04



Wadhvani Innovation Network - Center of Excellence (WIN-CoE)

The Wadhvani Innovation Network (WIN) is dedicated to driving innovation, translation and entrepreneurship with a prime objective of fast-tracking commercialization of academic research in cutting-edge areas such as biotechnology, bioengineering, synthetic biology, healthcare, artificial intelligence, semiconductors, space-tech, advanced computing, quantum technology, critical minerals and mining through partnerships with various Govt. agencies / academic institutions / incubators across the country.

05

DRDO Industry Academia Centre of Excellence (DIA-CoE)

With a vision to make India prosperous by establishing world class science and technology base and provide India's Defence services decisive edge by equipping them with internationally competitive systems and solutions, the DIA CoE is aimed to pursue projects to master critical and futuristic technologies related to design, development and selection of strategic materials for the Indian Defence.



06



Centre for Development of Telematics Centre of Excellence (CDOT-ITX CoE)

The CDOT-ITX CoE is dedicated to collaborative research, innovation, and indigenous technology development in Quantum Technologies, 5G, 6G, and beyond-communication systems, encompassing hardware, software, and standardization. The CoE will foster a strong innovation ecosystem by supporting startup incubation, mentoring, and industry-academia collaboration. It will also deliver training, capacity building, and skilling programmes aligned with national priorities in telecommunications, semiconductor, and digital transformation.

DEFENCE TESTING INFRASTRUCTURE



Technopark@IITK plays a strategic role in bolstering India's defence ecosystem under the Ministry of Defence's Defence Testing Infrastructure Scheme (DTIS). Of the three defence verticals allocated to the Uttar Pradesh Defence Industrial Corridor, two Defence Testing Facilities are established at Technopark@IITK.



Agreements with **IAS (Defence) Testing Foundation (HAL)** and **Communication (Defence) Testing Foundation (BEL)** were formally signed with Technopark@IITK in November 2024 marking a landmark collaboration. These Special Purpose Vehicles are supported by **UPSIDA** and **Technopark@IITK** and will be complemented by ancillary office spaces and infrastructure, contributing to the quality and reliability of indigenous defence technologies.



This state-of-the-art facility creates a powerful synergy between industry and academia. On the one hand, it empowers **IITK researchers with cutting-edge equipment**, and on the other hand, **MSMEs** leveraging this facility, can tap into IITK's technical expertise to overcome their R&D challenges.



11,500 SQ. FT

UNMANNED AERIAL SYSTEMS

Led by HAL, BEL, BOMI, IIL, GIL and Endure Air Systems.



Advanced UAS Testing Infrastructure



R&D and Prototyping Support



Defence-grade Validation Ecosystem



Industry-Academia Collaboration Platform



9,000 SQ. FT

COMMUNICATIONS

Led by HAL, BEL, and AWEIL.



Secure Communication Systems Testing



Signal and Electronics Validation



Regional Defence Infrastructure



Collaborative R&D Environment

International Partnership



In a significant move towards strengthening the R&D collaboration ecosystem, **Technopark@iitk** has entered into a partnership with **NMexus™**. NMexus™ is a Special Purpose Vehicle between the **New Mexico Partnership** and **Stup LLC** created to facilitate companies' entry and expansion into the State of New Mexico.



The partnership will boost business growth and R&D development for Technopark@iitk by assisting the member companies in accessing and thriving in the United States market through a structured, low-cost soft-landing program designed for their needs. At the same time, any company referred by NMexus™ will be able to avail **Technopark@iitk** services for exploring R&D collaborations with the **IITK ecosystem** through a structured, cost-effective engagement model.



Global Connect

Strengthening international ties for market growth and innovation.



Market Access

Enabling seamless entry and expansion into global markets.



R&D Collaboration

Enriching research and innovation through shared expertise.



Value Creation

Fostering sustainable partnerships for program impact.

OUR MEMBERS



INFRASTRUCTURE



₹22,000*



₹12,000



₹12,000



₹1,500



₹12,000

FLAGSHIP PROGRAMS



ReWoP

IITK Students Tackling Real World Projects

ReWoP (Real World Projects) is an Industry-Student Engagement Program designed to bridge the gap between academic learning and industry requirements. This initiative enables IIT Kanpur students to work on live industrial challenges through year-round internships and collaborative projects, helping them gain practical exposure while delivering innovative solutions to industry partners.



The program encourages students to translate classroom knowledge into real-world applications, fostering innovation, and industry readiness.



2000+

Students registered in
ReWoP Programme
(since 2019)



50+

Full-time Placements
(since 2019)



50+

Internships
(since 2019)



Industry Sponsored
M.Tech./PhD
(in progress)

KEY HIGHLIGHTS



**Out-of-the-Box
Solutions for
Industry**

Innovative and practical solutions tailored to real industry challenges.



**Affordable
Indigenous
Innovations**

Cost-effective and locally relevant solutions with high impact.



**Strong
Recruitment
Pipeline**

Identify and engage emerging talent for future workforce needs.



**Access to
IIT Kanpur's
Skilled Workforce**

Leverage the talent, expertise and creativity of IITK students.



**Practical Exposure
Through Live
Projects**

Hands-on experience that enhances skill, confidence and industry readiness.

FLAGSHIP PROGRAMS

FORTECH

'FORTECH' meaning
'For Technology' or 'FORTE in Technology'

FORTECH is a quarterly Industry-Academia Talk Series designed to promote a two-way exchange of ideas, knowledge, and technological insights between industry leaders and the IIT Kanpur research community.



The platform enables experts from diverse domains to share their research, discuss emerging technologies, explore industry applications, and deliberate on future trends and innovation opportunities.



Through multifaceted interactions, FORTECH strengthens collaboration between academia and industry while helping bridge the existing industry-academia gap.

DISTINGUISHED SPEAKERS & EXPERTS



Dr. Vilas Tathavadkar
Hindalco Industries
Ltd.



Prof. Sandeep Verma
Department of Chemistry,
IIT Kanpur



Dr. Sunil Ashokkar
Polymers Shell
Technology Centre, USA



Mr. Sudhanathu Mani
Architect of Vande
Bharat, Indian Railways



Late Prof. Kamwar S Nalwa
Sustainable Energy Engineering,
IIT Kanpur



Mr. Alind Sahay
Vice-President, R&D
PINTAR Medical, Hoya Corporation

KEY HIGHLIGHTS



Industry-Academia Connect

Bring together
industry leaders and
IIT researchers for
meaningful dialogue
and collaboration.



Knowledge Exchange

Sharing expertise,
research insights,
and technological
advancements.



Explore Future Trends

Discussing emerging
technologies and
identifying future
opportunities.



Collaborate for Impact

Encouraging joint
research, innovation
and real-world
application.



Bridge the Gap

Building stronger
connections between
industry needs and
academic
capabilities.



Innovation Driven

Driving innovation
and finding solutions
that empower
industries & society.

IDEAS. INNOVATION. COLLABORATION. TRANSFORMATION.



IDEAS

that inspire



INNOVATION

that drives



COLLABORATION

that connects



TRANSFORMATION

that impacts



A thriving ecosystem of innovation and collaboration

STAY CONNECTED



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