

FACTS & FIGURES

Data last updated on 31st December 2024



Organizational Chart

MAGISTRATE OF THE **STATUTORY BOARD* CORTE DEI CONTI AUDITORS*** (COURT OF AUDITORS) 15 members 3 members (*) statutory bodies **EXECUTIVE COMMITTEE*** 5 members **PRESIDENT* SCIENTIFIC DIRECTOR*** Gabriele Galateri di Genola Giorgio Metta **SCIENTIFIC GENERAL INTERNAL VICE SCIENTIFIC PRINCIPAL** RESEARCH DIRECTOR **TECHNICAL ADMINISTRATION COUNSEL** CONTROL DIRECTOR **INVESTIGATORS SUPPORT** GENERAL COMMITTEE



Governance

BoardMontanino Andrea (chairman)Goitini ElenaSala MarcelloGubitosi LuigiSciuto DonatellaMarullo di Condojanni SergioSquitieri RaffaeleMasi AlessandroStellacci FrancescoPettiti GianlucaTaddeo MariarosariaProfumo AlessandroUngaro SimoneRivera AlessandroVerona Gianmario	Executive CommitteeGalateri di Genola Gabriele (IIT president)Metta Giorgio (IIT scientific director)Inverardi PaolaTerzi VittorioVaccaro Luciana	Scientific Technical CommitteeSette Francesco (chairman)Aguzzi AdrianoKhatib OussamaAsfour TamimKotz SonjaBanin UriMarzari NicolaCangelosi AngeloMolinari ElisaCar RobertoNurmikko ArtoChalfie MartinSlotine Jean-JacquesCuniberti GianaurelioSongiovanni Vincentelli AlbertoCorboud Fumagalli AdrienneSangiovanni Vincentelli Alberto
Board of Statutory Auditors Alì Francesco (president) Di Felice Vincenzo Vassallo Enrico 3 members	Corte dei Conti (Court of Auditors) Corsetti Adelisa General Counsel Cusmai Raffaele	Audit, Risk Management Compliance Directorate Vidili Valeriano (director) Desiderio Stefano Nigro Leonardo



Scientific and Administrative Management

Vice Scientific Director

(pending appointment)

Director General

Moscone Fabrizio

Committee of the SD

Athanassiou Athanassiou Caldwell Darwin De Vivo Marco Decuzzi Paolo Fellin Tommaso Gustincich Stefano Manna Liberato Mazzolai Barbara Natale Lorenzo

14 members + 3 invited

Pellegrino Teresa Tonini Raffaella Siciliano Velia Tirelli Nicola Wykowska Agnieszka Moscone Fabrizio (invited) De Michieli Lorenzo (invited) Cagnoni Francesca (invited)

Research Support Directorates

Bencetti Stefano Cagnoni Francesca De Michieli Lorenzo

Gatti Massimiliano Greco Giuliano

Administrative Directorates

Caporali Andrea G Firpo Cevolani Valeria M Fontana Antonella M

Gelati Enzo Monaldi Ilaria Monga Marco

Principal Investigators and Facility Coordinators

85 Principal Investigators + 17 Facility Coordinators



IIT Values

Courage, Social Responsibility, Inclusion, and Integrity

Our values guide us:

- in exploring uncharted territories
- in always being aware of the impact our research has on society and the environment
- in valuing innovation and making technological progress accessible to everyone
- in acting according to the principles of transparency and honesty

Courage

We like challenges, and we face them with determination, striving for excellence.

Societal Responsibility

We aim to benefit humanity worldwide. We strive to help society develop for the common good.

Inclusion

We welcome and cherish diversity in every form. We do not tolerate discrimination in any form. We are always inclusive, respecting individual freedom.



We adhere to scientific and moral integrity. We value and strive for openness, honesty, authenticity, sincerity, and transparent behavior. We communicate transparently.







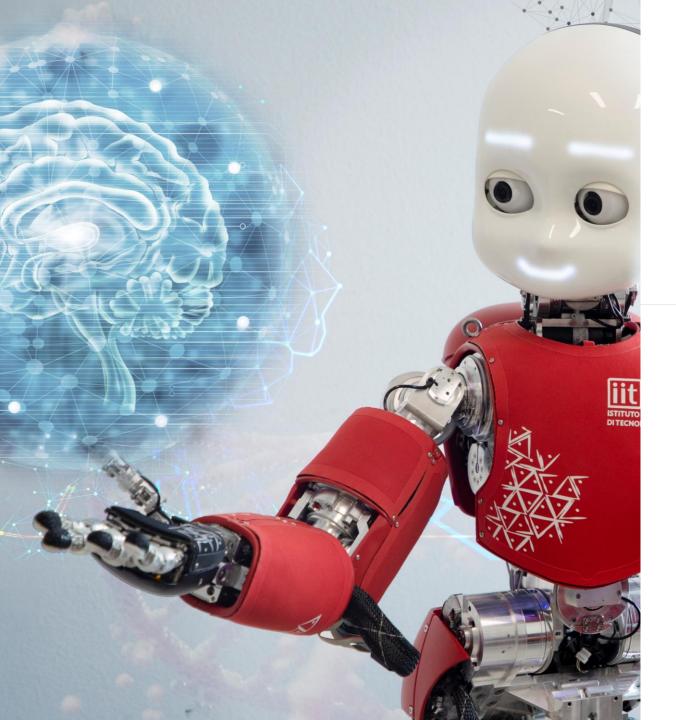




Strategic Plan 2024-2029

Vision, Programme and Numbers





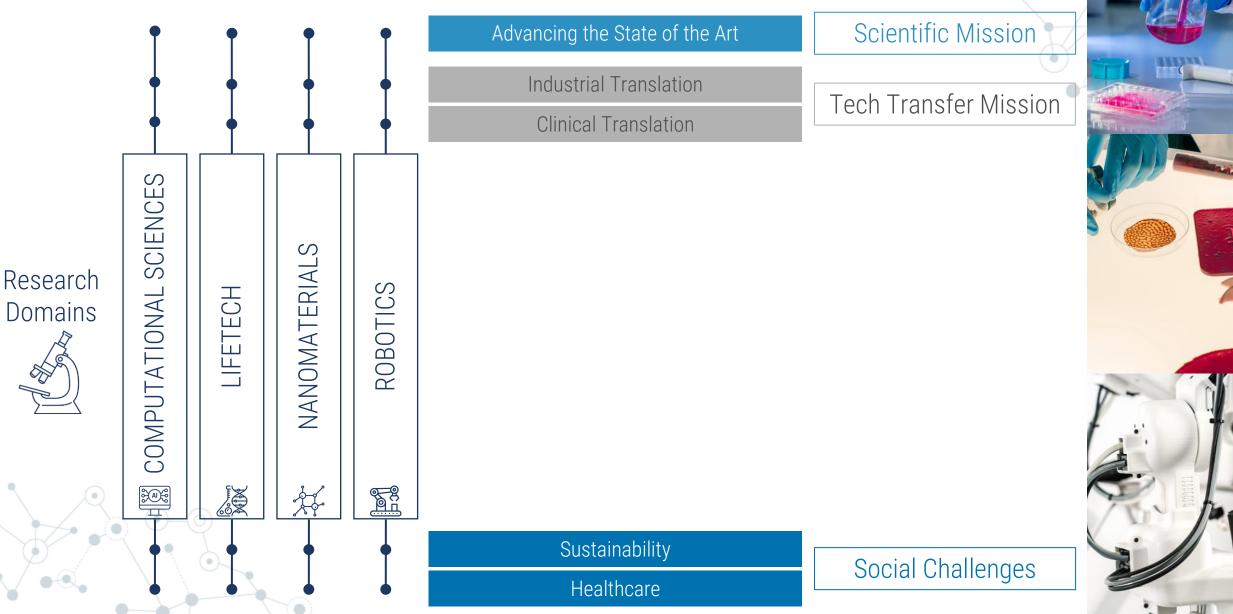
IIT Research Plan Vision, Mission and Programme

Artificial Intelligence for Healthcare and Earthcare

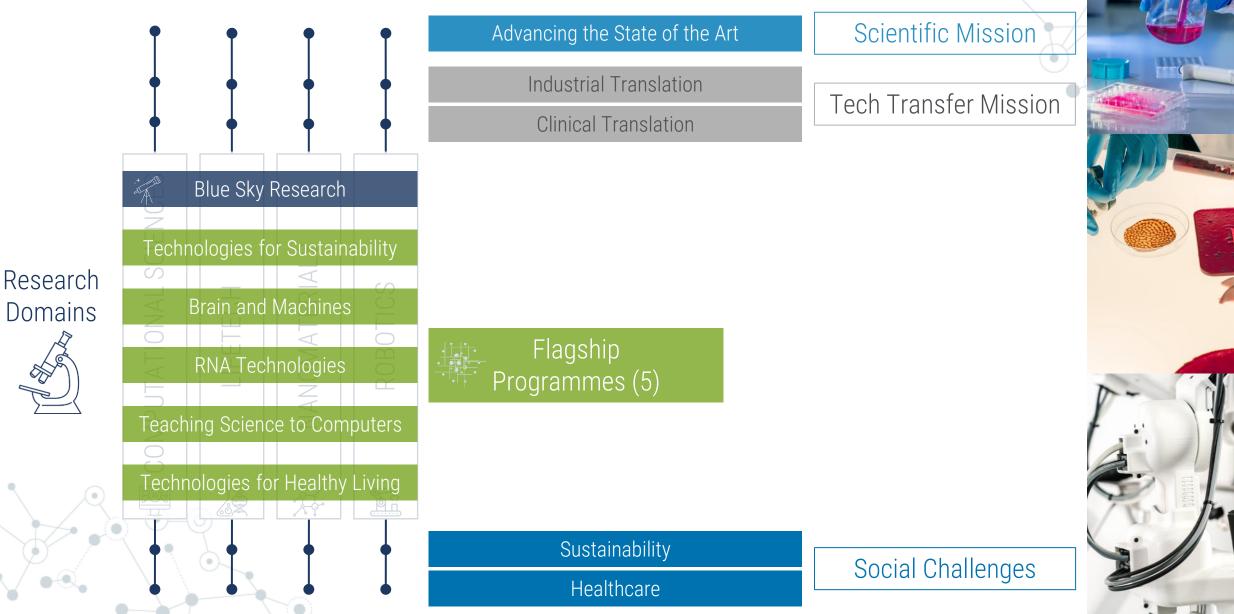


We strive to conduct **outstanding scientific research**, develop **cutting-edge technologies**, and foster a **creative research environment**

Strategic Plan 2024-2029



Strategic Plan 2024-2029



IIT Research Domains

Computational Sciences, Technologies for Life Science (LifeTech), Nanomaterials and Robotics

Each research domain consists of independent research units, each led by a Principal Investigator and supported by state-of-the-art facilities.

Computational Sciences

We focus on computational chemistry and physics, artificial intelligence, and the hardware enabling high-performance computing (HPC).

LifeTech

We develop technologies in RNA molecular biology and neuroscience, leveraging computational methods and artificial intelligence.





Nanomaterials

We design materials that meet the needs of sustainable development, energy, and healthcare, by fine-tuning their intrinsic properties.



Robotics

We design a variety of hardware and software robots intended to operate in factories, homes, or hospitals.



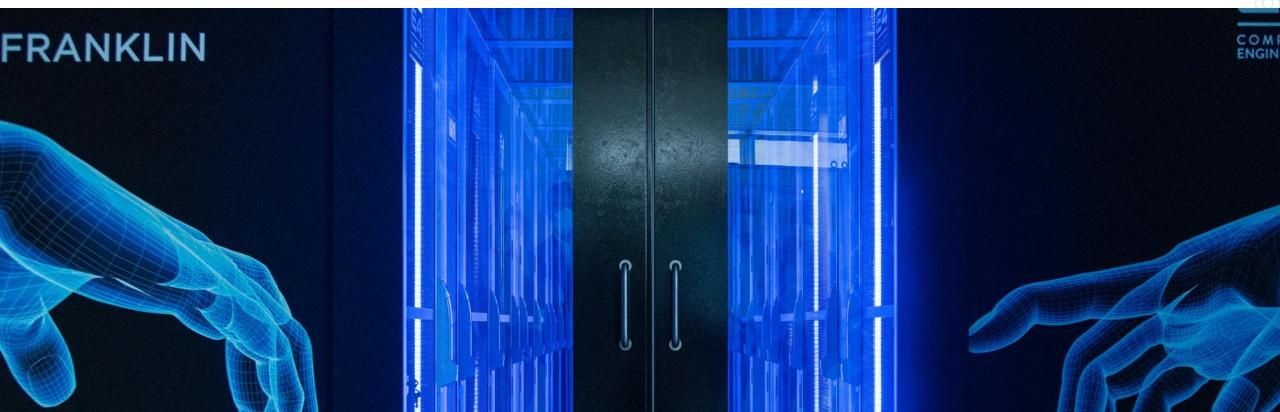


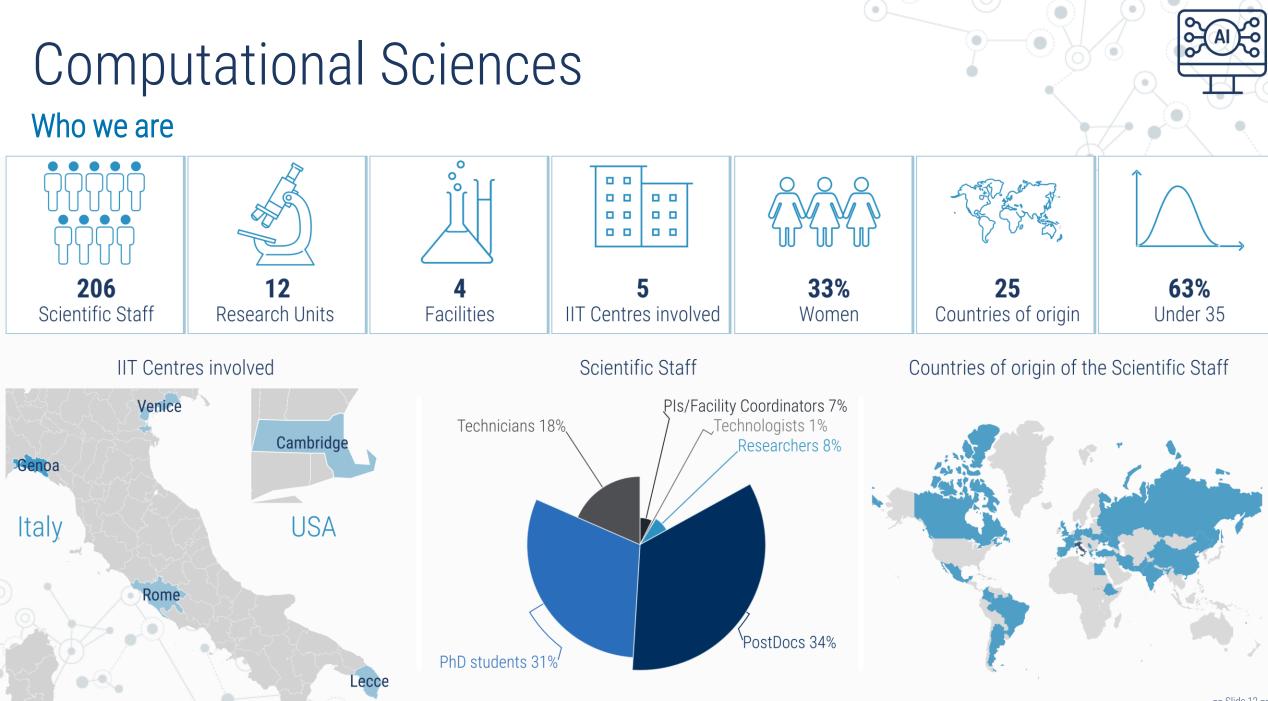
The research domains strive to advance **applied research** areas (e.g., Flagship Programs) as well as fundamental, purely **exploratory research** (Blue Sky Research)

Computational Sciences

Atomic and Molecular Simulations and Machine Learning Mathematics

- Our researchers study computational chemistry and physics, AI, and high-performance computing. These fields accelerate drug discovery, the engineering of new materials, and algorithmic optimization.
- We boast an extremely powerful platform for bioinformatics and the engineering of new medicines.
- We have achieved remarkable results in technology transfer and the development of 'embodied' AI for robotics.





Technologies for Life Science (LifeTech)



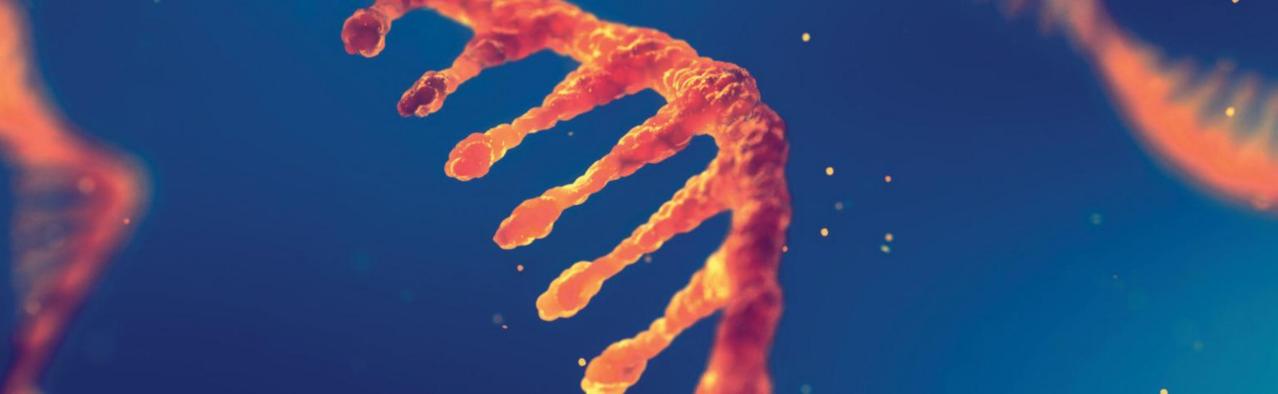
Molecular Biology of RNA and Neurosciences

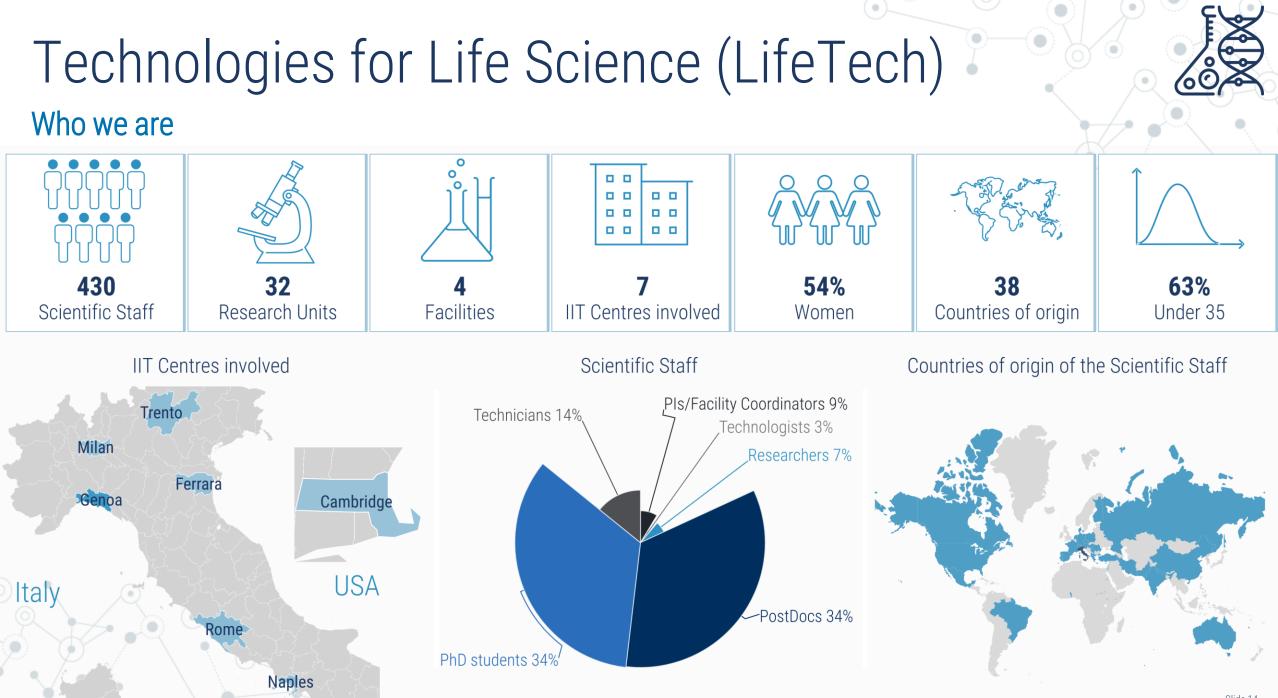
Our researchers use computational methods and AI to engineer molecules and for applications in medical genomics for personalized medicine.

Among our goals is also robotics for healthcare and smart devices for drug delivery.

We boast world-class expertise in non-coding RNA and genomics, and we study cutting-edge computational methods in bioinformatics. We are involved in broad, multi-scale, and multimodal experimental neurosciences.

In bioimormatics, we are involved in broad, multi-scale, and multimodal experimental neurosciences.





Nanomaterials

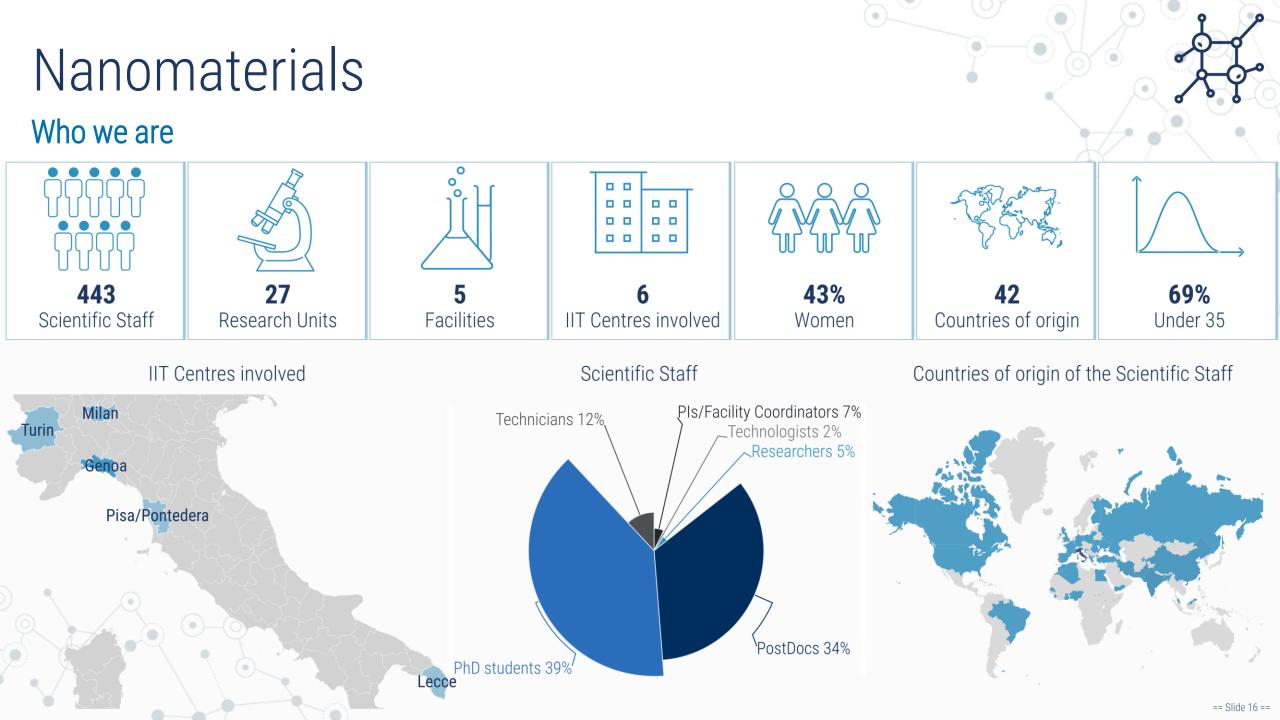
Advanced Chemistry, Physics, and Engineering

Our researchers have extensive experience in designing new materials to meet the growing needs of sustainable development in sectors such as energy and healthcare. We design materials with the goal of refining their mechanical, optical, thermal, or electrical properties.

We boast theoretical, engineering, and computational expertise in material simulation.

We are committed to environmental sustainability, the energy sector, and applications in medicine and healthcare.





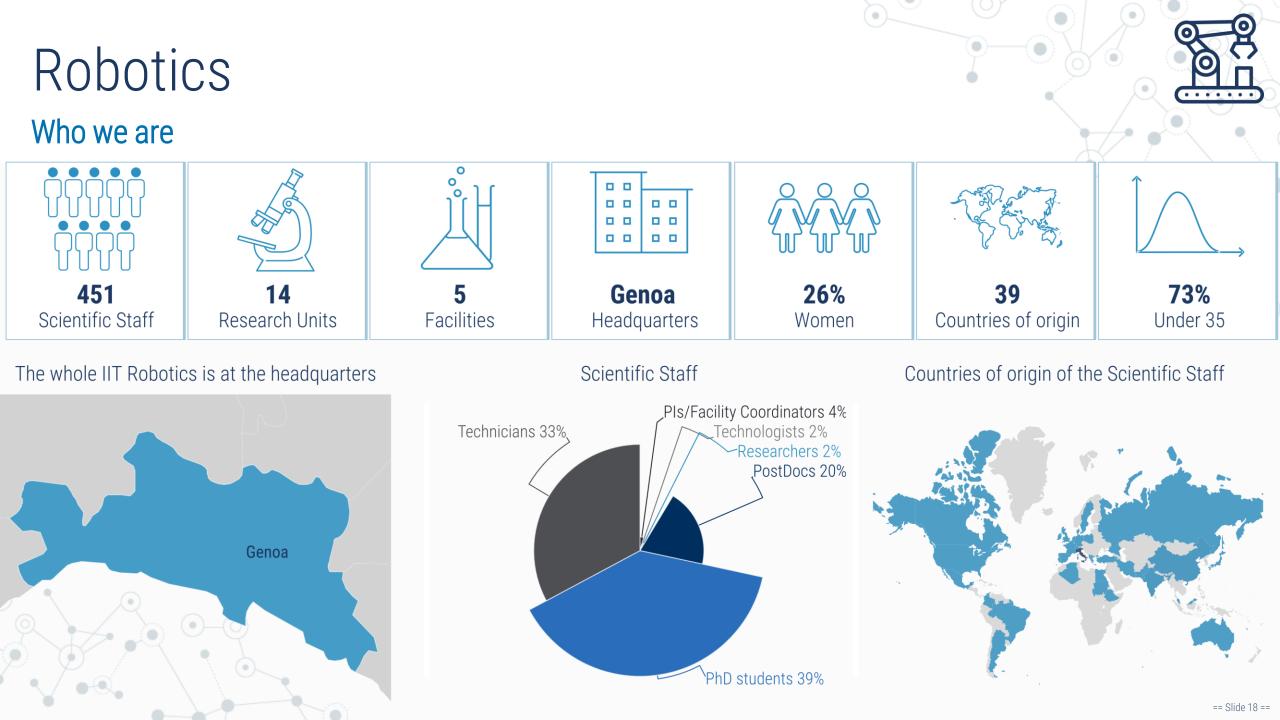
Robotics

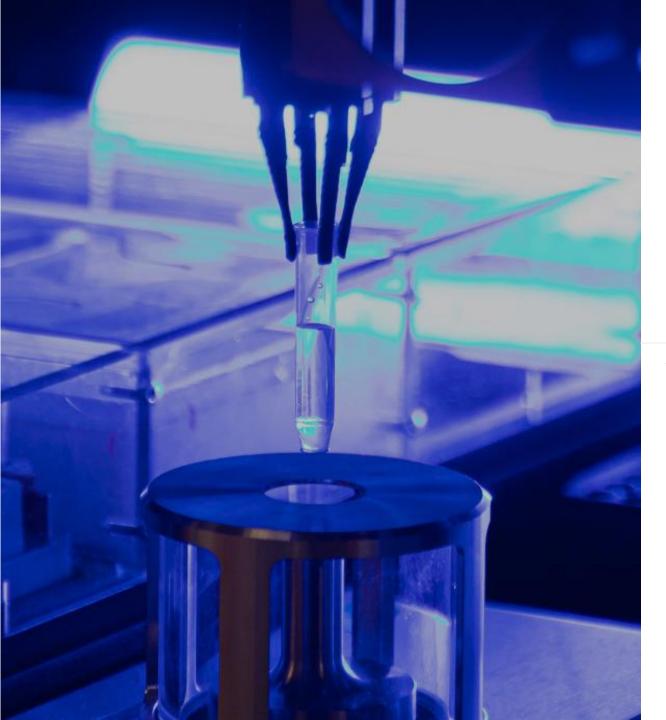


Control Theory, Electronics, Artificial Intelligence (AI), Psychology, and Cognitive Neurosciences Our researchers design a range of robots developed to operate in various contexts: from factories to homes to hospitals, covering everything from hardware components to software. We boast high engineering expertise and deep knowledge in electric motor actuation. We are experts in locomotion and humanoid robotics, human-robot interaction, and embodied AI.

Our approach is bioinspired and closely related to neuroscience and cognitive sciences.







Blue Sky Research A Visionary Research Programme

We are guided by curiosity, whose results can be unpredictable and surprising



Edward Teller – Hungarian and American physicist (1908-200)

Flagship Programmes

Collaborations across research domains with visionary and ambitious goals

The IIT Flagship programmes aim to address global challenges (climate and aging), technological needs (energy, bioengineering, digital), and emerging trends (AI), leveraging the strengths of IIT research.

Technologies for Sustainability We aim to manipulate matter at various scales to create a world without pollutants.	Brain and Machines We aim to understand and model how the brain processes information to generate behavior.	RNA Technologies We aim to understand biology and to find druggable pockets in the molecular processes of cells.	Teaching Science to Computers We aim to develop new methods for instilling the laws of physics into data-driven algorithms.	Technologies for Healthy Living We aim to develop low-cost, noninvasive sensing devices to assess the health status of a person.
Contribution of each Research Domain	Contribution of each Research Domain	Contribution of each Research Domain	Contribution of each Research Domain	Contribution of each Research Domain
		Contraction of the second		

Technologies for Sustainability

Objectives



Current activities (2024-2025) Material valorisation and upcycle to build new devices



Mid-term objective (2026)

Proof-of-concept low-energy, sustainable (materials) robots for environmental monitoring and remediation

End-of-plan objective (2029)

Low-emission tech, substitution of critical materials, and end-of-life solutions for critical technology/products



Brain and Machines

Objectives



Current activities (2024-2025)

From technology for brain recording to cognitive rehabilitation and robotics



Mid-term objective (2026)

Multiscale, multimodal description of brain activity and behaviour, computational models, and interactive robots

End-of-plan objective (2029)

Models of neural activity and behaviour translated into adaptive robots for intuitive human-robot interaction



RNA Technologies

Objectives



Current activities (2024-2025) Engineered RNA molecules and their patenting

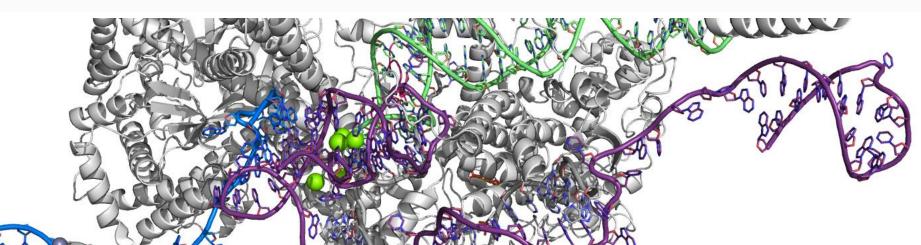


Mid-term objective (2026)

Create novel RNA drugs, initiate a start-up and collaborations, lead a national RNA-focused scientific network

End-of-plan objective (2029)

Progress an RNA molecule to the investigational new drug stage



Teaching Science to Computers

Objectives



Current activities (2024-2025)

Efficient and "democratic" machine learning applied to materials, biomolecules and robotics

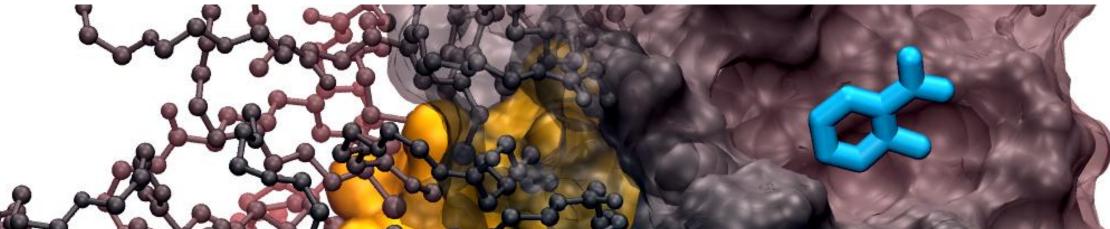


Mid-term objective (2026)

Reveal, understand, and compute new fundamental principles of chemical and biological processes and of human behaviour

End-of-plan objective (2029)

Efficient and predictive algorithms and software to model complex chemical systems in biology, medicine, materials sciences, and for analysing human behaviour



Technologies for Healthy Living

Objectives



Current activities (2024-2025) One-health approach to a number of "use-cases"



Mid-term objective (2026) Proof of concept of the intelligent and reactive environment

End-of-plan objective (2029)

Quantitatively assess the value added to healthcare systems by intelligent and reactive environments



IIT in numbers

Staff, Research Centres and Results

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10750

14 Centres 12 in Italy 2 US outstations 50.000 m² of labs



1001

Industrial Projects

+28.9 MEUR in kind contribution 185 ongoing projects



1888 Staff 70 countries of origin 36 years average age 44% women 80% scientific staff



1326

Patents 440 inventions



0000



913

15

Joint Labs

Competitive Projects 473.3 MEUR +4.1 MEUR in kind contribution 259 ongoing projects

21800+ Publications 718k+ citations 110k+ impact factor





37 Startups 50+ Business Idea





== Slide 26 ==

IIT Centres





Center for Convergent Technologies, Morego, GENOA (headquarters)



DI TECNOLOGIA

Center for Nano Science and Technology, Politecnico di Milano, MILAN

Center for Nanotechnology Innovation,



ISTITUTO ITALIANO

Center for Advanced Biomaterials for Health Care, Università Federico II di Napoli, NAPLES



ISTITUTO ITALIANO

Center for Biomolecular Nanotechnologies, Università del Salento, LECCE



Center for Cultural Heritage Technology, Università Ca' Foscari, VENICE



DI TECNOLOGIA

ISTITUTO ITALIANO

DI TECNOLOGIA

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LECCE

CBN@UniLe

Center for Genomic Science, Campus IFOM-IEO, MILAN

Center for Human Technologies, Erzelli, GENOA

Center for Joint Industrial Research, **GENOA**



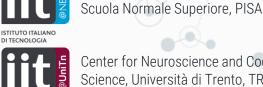
ΙSTITUTO ΙΤΑΠΑΝΟ

Center for Life Nano & Neuroscience, Sapienza Università di Roma, ROME





Center for Material Interfaces, Scuola Superiore Sant'Anna, PONTEDERA



Center for Neuroscience and Cognitive Science, Università di Trento, TRENTO



Center for Robotics and Intelligent Systems, San Quirico, GENOA



ISTITUTO ITALIANO

DI TECNOLOGIA



Center for Sustainable Future Technologies,

ISTITUTO ITALIANO **DI TECNOLOGIA**



Center for Synaptic Neuroscience and Technology, Università di Genova, GENOA



ISTITUTO ITALIANO

Center for Translational Neurophysiology, Università di Ferrara, FERRARA



IIT@Harvard Harvard University, CAMBRIDGE, MA (USA)



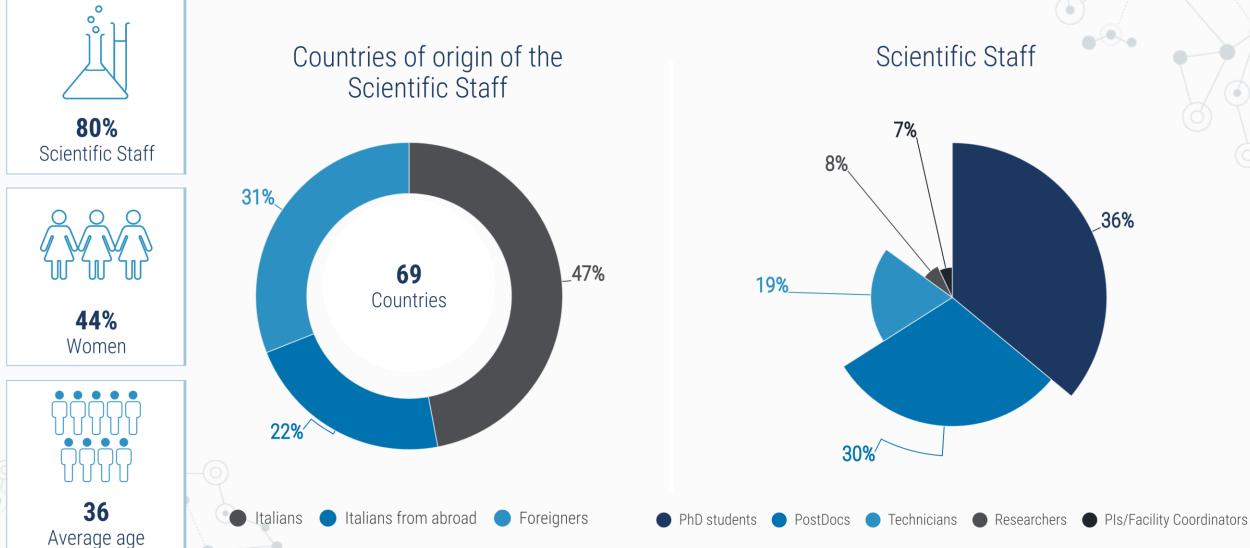
IIT@MIT Massachusetts Institute of Technology, CAMBRIDGE, MA (USA)

ISTITUTO ITALIANO **DI TECNOLOGIA**

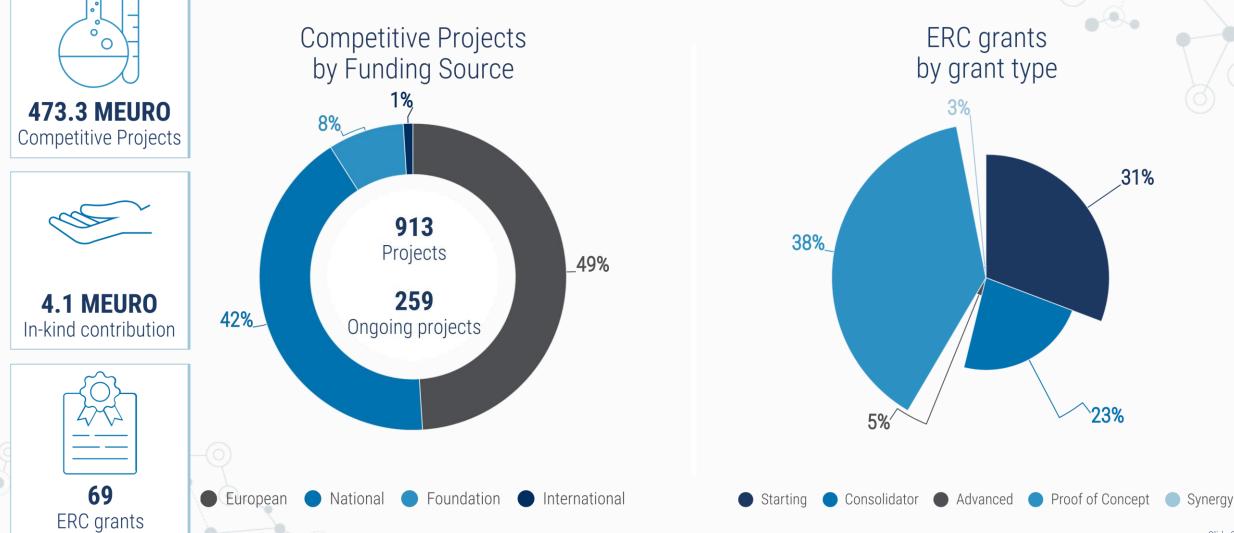


IIT NETWORK CENTERS

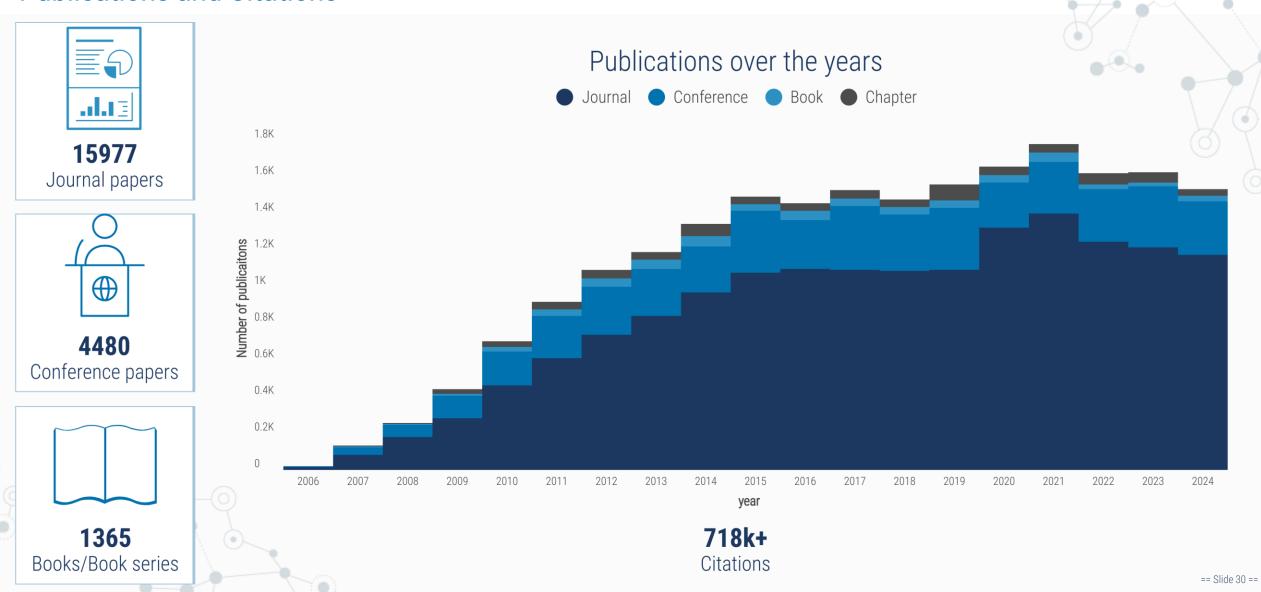




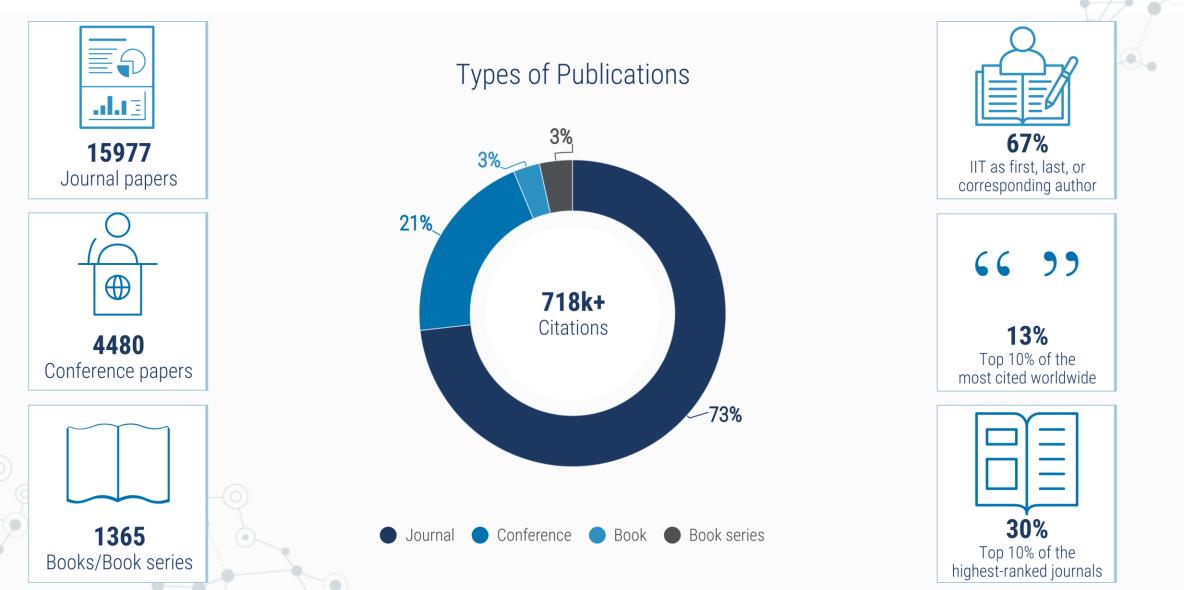
Competitive Projects Budget, Types of Projects, and European Research Council (ERC) Grants



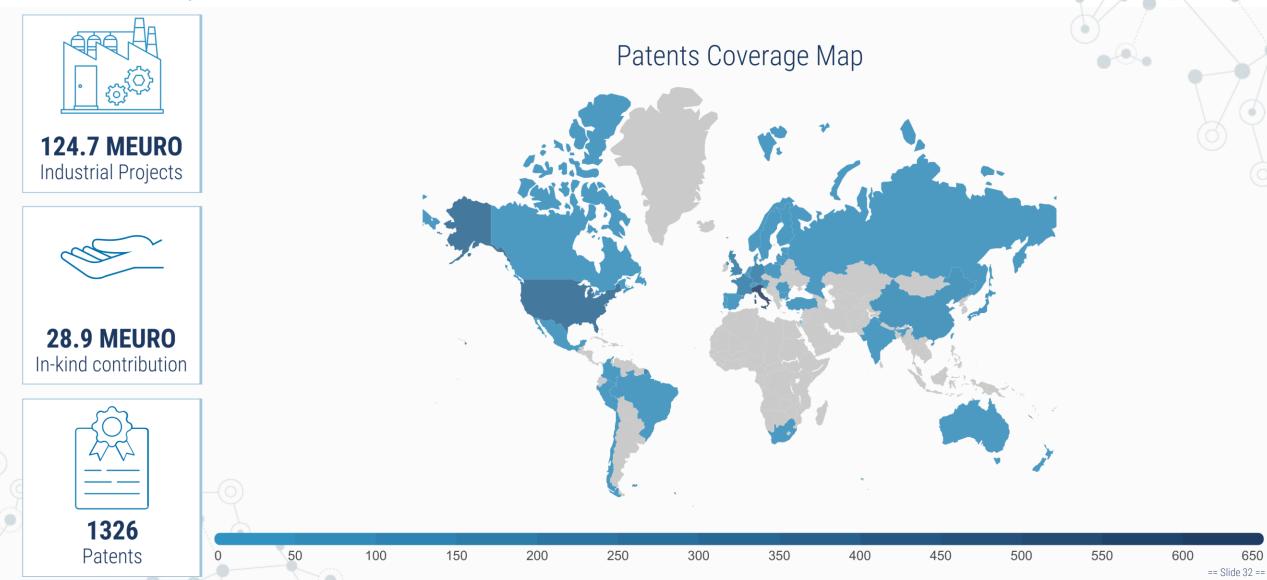
Publications Publications and Citations



Publications Publications and Citations



Technology Transfer Industrial Projects, In-kind Contributions, and Patents



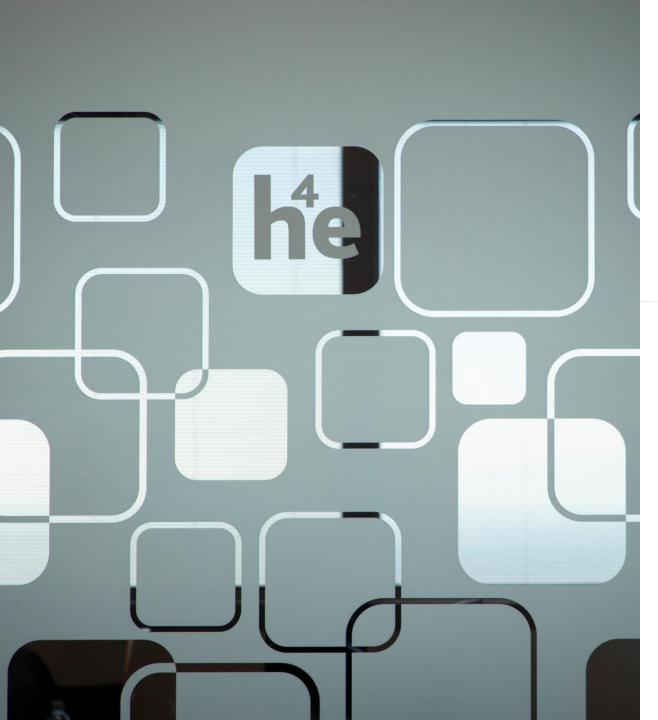
IIT Joint Labs



IIT Start Ups



37 startups and more than 50 projects or business ideas currently in progress



H4E IIT Hub for Entrepreneurship

The Technology Incubator that brings scientific discoveries to market



A synergistic environment where entrepreneurs, researchers, and innovators can transform **visionary ideas** into **concrete solutions**



Industrial Liaison Program A focal point for companies and researchers

For large and medium-sized companies seeking to establish a lasting partnership with the Institute



We foster collaboration and support the development of advanced technological innovation projects

Industrial Liaison Program

Membership Benefits

Dedicated Liaison Officer

The Liaison Officer serves as IIT's primary contact for the company Plenary Events and Workshop Participation in IITtargeted events



Horizontal Technology Scouting Identification of broadly applicable technologies of interest In-depth Specific Scouting Focus on identifying specific technologies of interest

Access to IIT's Network Guidance for companies in navigating the IIT ecosystem

Synergies Facilitating synergies among affiliated companies



Optional Modules

Innovation Day@IIT	Talent connect Day	Reverse Mentoring	Secondment @IIT	Access to IIT scientific talks	Joint Paper	Supplier Day
Organize a dedicated	Showcase and promote career	The researcher acts as an	A visiting period at IIT for	Participation in scientific	Co-create and publish a white	Showcase and promote company
company event	opportunities	informal mentor	company	seminars	paper in	products and
at IIT 🔅	within the	and guide for the	personnel	organized by IIT	collaboration	services relevant
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IIT WHERE SCIENCE COMES TRUE