



Institute for Systems and Computer Engineering, Technology and Science

INESC TEC is a private non-profit research institution, dedicated to scientific research and technological development, technology transfer, advanced consulting and training, and pre-incubation of new technology-based companies.

As an institution operating at the interface of the academic and business areas, bringing closer together academia, companies, public administration, and society, INESC TEC typically applies the knowledge and results generated as part of its research in technology transfer projects, seeking value creation and immediate social relevance.

Present in sites in the cities of Porto, Braga and Vila Real, INESC TEC encompasses 13 R&D Centres, structured according to four thematic domains - Networked Intelligent Systems, Power and Energy, Industrial and Systems Engineering, and Computer Science - with complementary competencies. Through different fields of intervention, such as Agro-food, Energy, Health, Industry and Sea, INESC TEC aims to connect to the markets and address the challenges of economy and society.

Mission

The mission of INESC TEC is to achieve advancement in science and technology and to enable science-based innovation through the transfer of new knowledge and technologies to industry, services and public administration.

Vision

INESC TEC vision is to be a leading Science and Technology Institution at international level, perceived as an important world player, in the domains of Networked Intelligent Systems, Power and Energy, Industrial and Systems Engineering, and Computer Science.

Values

Innovation excellence, People-centred, Research freedom, Cooperation, Social responsibility.

Strategy

INESC TEC's strategy is driven by a conceptual vision that encompasses the following axes:

- Excellence in science, talent development, technology transfer and collaboration with industry
- Full coverage of the knowledge-to-value chain
- Multidisciplinarity
- Scale, density, critical mass and integration
- International visibility and presence

Human resources

INESC TEC hosts over 700 integrated researchers (about 350 PhDs), including staff researchers, researchers from Higher Education Institutions, grant holders and affiliated researchers. INESC TEC's team also includes trainees, and technical and administrative support staff.

35 years of history, heading for the future

INESC in the city of Porto was established in 1985, and it has managed to secure an important position in the National Scientific System over the years, with INESC as its reference, in a holding-type structure that is to this day an important model in the form of a University-Industry relationship. In 1998, because of INESC's restructuring process, the pole of Porto became autonomous, thus originating INESC Porto. With INESC, it has learned how to adopt a unique behaviour within the national academic environment, always looking outwards, in the search for strategic partnerships in critical sectors of the economy. Moreover, INESC Porto proved to be perfectly capable of acting autonomously with its own strategy, without ever neglecting the public sector of education.



As an Associate Laboratory since 2002, and Technological Interface Centre since 2018, INESC TEC is a dynamic and innovative organisation, based on criteria of efficiency and effectiveness, strongly investing in the valorisation of its R&D activities, namely by promoting technology-based business initiatives.

Simultaneously, INESC TEC honours its academic background, always promoting a close relationship with U.Porto, P.Porto, UMinho, UTAD, U.Aberta and IPB, investing in advanced training and R&D, and encouraging the development of a large number of MSc and PhD theses. INESC TEC always strives to be a source of innovation and dynamism, thus contributing to the country's progress and development.

The knowledge-to-value production chain

At INESC TEC, the scientific research activities are organised in clusters that combine the expertise of its R&D Centres:

Networked Intelligent Systems

Applied Photonics
Biomedical Engineering
Robotics and Autonomous Systems
Telecommunications and Multimedia

Power and Energy

Power and Energy Systems

Industrial and Systems Engineering

Industrial Engineering and Management
Enterprise Systems Engineering
Innovation, Technology and Entrepreneurship
Robotics in Industry and Intelligent Systems

Computer Science

Advanced Computing Systems
Information Systems and Computer Graphics
High-Assurance Software
Artificial Intelligence and Decision Support

The knowledge generation turns into economic value through a mix of technology transfer processes with an impact on markets such as:

Agro-Food

Co-shaping the digital evolution in agro-food and forestry.

Energy

Decarbonisation and digitalisation of the electric sector.

Health

User-centred ICTs to improve health care and personal wellbeing

Industry

Foster transformation for an innovative, collaborative, human-centred and sustainable industry.

Sea

Bringing the digital world to a sustainable sea economy.