# AREA SCIENCE PARK

## an ecosystem of research, innovation and enterprise

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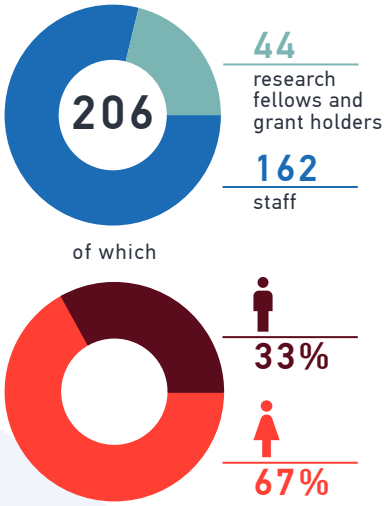
Area Science Park is a national research body headquartered in Trieste and supervised by the Italian Ministry of University and Research. It was established in 1978 to develop and support scientific and technological research in the region.
Over the years, Area Science Park has accrued specific skills in conceiving, developing and implementing **technology transfer** initiatives, integrated systems and **innovative services**.

Today, Area Science Park's main focuses include: **highly specialized research, innovation models to support industry**, management and development of the **science park**.
All initiatives and activities are devised to support the **ecological transition**.

HUMAN RESOURCES




STAFF ACADEMIC QUALIFICATIONS


# Research

Area Science Park carries out research and develops connected services in the fields of **omics sciences**, **new materials** and **data science**. Researchers at Area Science Park have specific skills in Big Data processing, from artificial intelligence techniques to the production of FAIR-by-design data. Area Science Park has three laboratories on its premises. All facilities operate with cutting edge technology equipment:

The **Genomics and Epigenomics Laboratory** is dedicated to DNA and RNA sequencing analysis and genotyping for the study of viruses and pathogens of human, animal or vegetable origin.

The **Electron Microscopy Laboratory** is dedicated to the analysis of the nano-structural, electronic and chemical-compositional properties of materials with applications in electronics, sensors and in the energy sector.

The **Data Engineering Laboratory** provides advanced calculation and data analysis services and carries out R&D activities to extract knowledge from data in the field of Artificial Intelligence.

The laboratories, which can be accessed in an **open access** mode by researchers from academia and business alike, belong to networks of scientific collaboration and international research infrastructures.

# Innovation supporting enterprises

Area Science Park has thirty years' experience in developing **innovation projects**, based on knowledge and skills gained while combining the needs of research and business in several different sectors, from ICT to environmental sustainability.

The Argo project is an outcome of this expertise, stemming from an agreement between Friuli Venezia Giulia Regional Government, Ministry of University and Research and Ministry for Economic Development. IP4FVG, the **digital innovation hub of Friuli Venezia Giulia region**, was developed in this framework and is managed by Area Science Park. IP4FVG supports companies' digital transformation through advanced training, public-private partnership initiatives and technology demonstrators and is currently developing its international dimension as a European digital hub.

Furthermore, Area Science Park supports the generation of new companies with a strong technological specialization, focusing specific attention on deep-tech innovation processes.

**an ongoing dialogue between research and industry**

THE PARK IN FIGURES

**57**
PRIVATE COMPANIES

**7**
RESEARCH ORGANIZATIONS

**2,825**
PEOPLE WORKING IN THE CAMPUSES

**22**
BUILDINGS

**80,000**
M² AVAILABLE SPACE FOR R&D

# Science and Technology Park

In its two campuses on the outskirts of the city of Trieste on the Karst plateau, Area Science Park hosts R&I labs, research centres, companies, startups and university spin-offs. The campuses are places for contamination between science and business. The S&T park hosts **research infrastructures** and **international centers of excellence**, such as ELETTRA synchrotron light source, FERMI free electron laser and ICGEB, the International Center for Genetic Engineering and Biotechnology.

Area Science Park has put together laboratories, equipment and advanced skills present in the park to deliver two **Scientific and Technological Platforms**, available to research and business in an open access mode. In line with Area Science Park's research, the platforms are dedicated to applications in the **life sciences** sector and to the study of **new materials**.

# International networks

Area Science Park's geographic position, close to the borders with **Central Europe and the Western Balkans** has fostered the development of a wide network of international relations and participation in several cross-border and transnational programs funded by the European Union. Thanks to its expertise in research and innovation, technology transfer and development of shared policies, Area Science Park designs and participates in a wide range of **INTERREG cooperation projects** with the countries of Eastern and Southern Europe. Area Science Park also develops and participates in Horizon Europe research and innovation projects.

An agreement with the **Joint Research Center** of the European Commission, among the several cross-border and transnational cooperation agreements, aims to foster cooperation in the development of technology transfer and support initiatives for innovative companies in the Western Balkans.
Area Science Park laboratories are part of the **distributed international research infrastructure** CERIC-ERIC, the Central European Research Infrastructure Consortium.

**international cooperation and science diplomacy**

Area Science Park also coordinates the activities of SiS FVG, the regional Research and Innovation System of Friuli Venezia Giulia, bringing together the three universities, international organizations, research institutions, conservatories and the company incubators operating in the region. SiS FVG stems out of an agreement between Ministry of University and Research, Ministry of Foreign Affairs and International Cooperation and Friuli Venezia Giulia Regional Government, renewed in July 2021, recognizing the system's pivotal role in **international cooperation** and **science diplomacy**.

# Strategic initiatives

## FUNDED BY THE MINISTRY OF UNIVERSITY AND RESEARCH

**> PRP@CERIC - Pathogen Readiness Platform for CERIC-ERIC Upgrade**

Area Science Park coordinates PRP@CERIC project, aiming to create highly specialized research infrastructure, one of the kind in Europe, integrating equipment and skills in biology, biochemistry, physics, bio-electronics, bio-informatics to provide rapid response in case of new, possible outbreaks of **diseases caused by pathogens**.

**> NFFA-DI - Nano Foundries and Fine Analysis Digital Infrastructure**

The project is the upgrade of the previous NFFA project, focusing on research infrastructure for nano-sciences and nanotechnologies with applications in the field of materials. NFFA-DI, of which Area Science Park is a partner, aims to finalize the study of nano-structural materials for the design of **sensors and electronic devices on a microscopic scale**.

**research infrastructure for the study of new materials**

## PROJECTS WITH EUROPEAN FUNDING

**> NAHV - North Adriatic Hydrogen Valley**

NAHV is a transnational project for the development of a valley dedicated to the **hydrogen supply chain**. Stemming from an agreement between Friuli Venezia Giulia Regional Government, Croatia and Slovenia, the project has obtained European funding to develop pilot plants and green hydrogen production technologies. Area Science Park is a partner in the initiative.

**> IMPRESS - Interoperable electron Microscopy Platform for advanced RESearch and Services**

IMPRESS, coordinated by Area Science Park researchers, aims to co-develop interoperable instrumentation in **electron microscopy** through synergy with sector industries, aiming to introduce new technological solutions designed for a wide range of application contexts, from materials science to life sciences, from materials for the energy sector to diagnostic imaging.

**BSBF 2024 - Big Science Business Forum Trieste 2024**

Area Science Park is among the partners of the 3rd edition of BSBF, an international forum involving the main European Research Infrastructures and industry, scheduled for 2024 in Trieste.

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