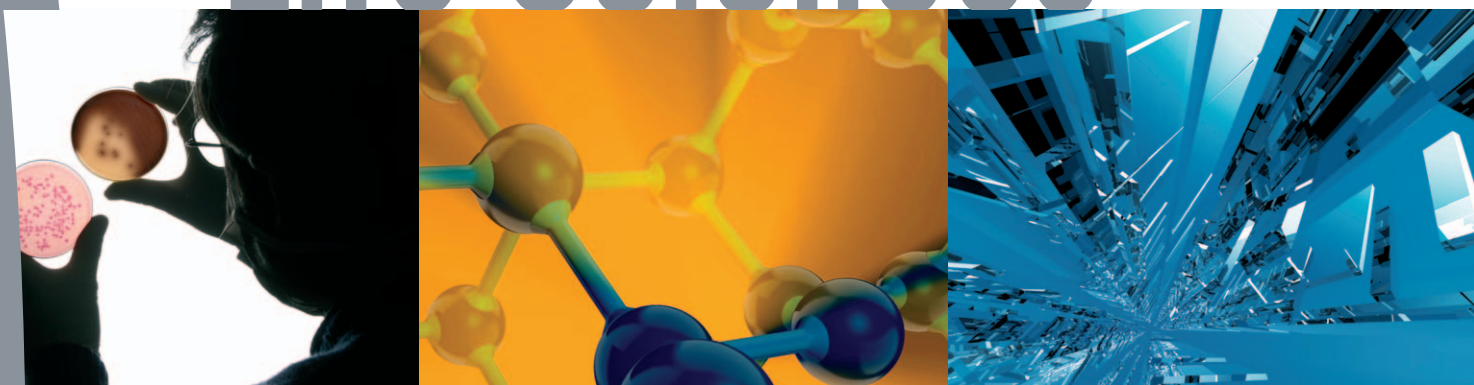


Life Sciences



in Torino Piemonte

Northwest Italy



CENTRO ESTERO INTERNAZIONALIZZAZIONE
PIEMONTE *Agency for Investments, Export and Tourism*

Promoted by Regione Piemonte and Chambers of Commerce

A favourable environment

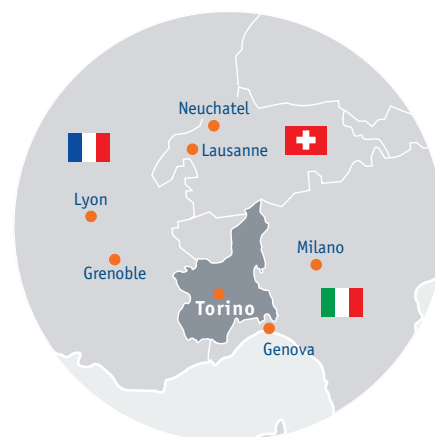


Facts & figures

- 4.3 million inhabitants
- 109 billion GDP (8.4% of the national total)
- 34.7 billion exports of goods and services
- 1.8% of GDP invested in R&D (about 80% comes from the private sector)
- Over 200 public and private R&D centres, 380 laboratories, 4 universities, 6 science and technology parks
- 1st Italian region to have established a regional agency dedicated to inward and outward investment
- 1st and unique Italian region to have created a dedicated financial tool for attracting and supporting FDI
- 1st Italian region for private investment in R&D
- 1st Italian region for expenditure on innovation in the manufacturing sector
- 1st Italian region in terms of capacity for collaboration between universities and industries
- Torino, 1st Italian city in terms of FDI inflows
- Torino, second centre in Italy for venture capital operations
- Torino host city of Euroscience Open Forum - ESOF 2010

Life Sciences in Torino Piemonte

- Strategic position right in the centre of one of the most dynamic biotech areas in Europe
- Many organisations work together for the development of Life Sciences in Piemonte: science and technology parks, bank foundations (Compagnia di San Paolo and Fondazione CRT), the Foundation for Biotechnology (www.fobiotech.org), the Human Genetics Foundation (www.hugef.org), public and private research and training institutions, clinical institutes etc.
- One science and technology park entirely dedicated to life sciences and three incubators specialising in biotechnology and life sciences.
- 2nd Italian region in terms of biotechnology companies (source: Blossom Associati - CrESIT 2008)
- 800 public research groups (60% of them in biomedicine)
- over 500 biomedical articles by Piemonte universities and IRCC Candiolo (source: PubMed, www.pubmed.gov)
- 1,500 researchers in Biotechnology, Pharmacy, and Medicine



- Venture capital companies focused on life sciences:
 - **Eporgen Venture**
www.eporgen.com
is the first example of a seed-capital company founded by non-institutional investors and aims to generate new enterprises in the biotechnology sector
 - **Piemontech**
www.piemontech.it
provides with venture capital the most promising Piemonte-based companies operating in the sectors of ICT, biotechnologies, biomedics, advanced mechanics, energy, innovative and high value-added services



Piemonte Agency is the unique, free reference point for companies wishing to locate in Piemonte. The inward investment team can advise you on every aspect of starting and running a business in Piemonte, providing assistance at every stage of the project.

The team also supports foreign companies which have already invested in Piemonte, in order to facilitate operations and development in the region.

How we can help

- **assessment and information phase**
 - specific economic and market data
 - legal / labour / tax
 - incentives, grants, fiscal bonuses
 - economic and industrial climate, competencies, know-how and key sectors
 - real estate
- **start-up and assistance**
 - advice on how to set up a legal entity in Italy
 - site selection for production, services and R&D activities
 - selection of grants and incentives for investment, R&D, training
 - introduction to local and regional institutions, science and technology parks, R&D networks, innovation hubs
 - links to universities and centres of excellence
 - pre-feasibility studies
 - Regional Investment Contract

Our services are free, responsive, tailored to your needs and totally confidential. We can provide assistance at every stage of the project.

For a confidential discussion about the ways we can help you, please contact:
investment@centroestero.org

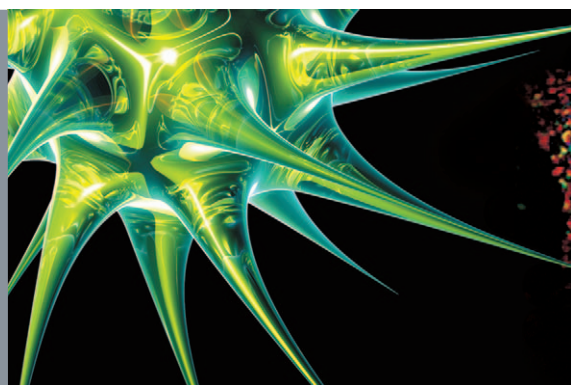


Major companies, SMEs, technology platforms, services...

Converging technologies

The strong skills existing in other sectors such as ICT, electronics, and nanotechnologies have favoured the development of significant results and expertise in bioinformatics, diagnostics and biomedical equipment.

- Laboratories, pilot plants and production facilities of important diagnostics, pharmaceutical and cosmetics companies, such as Bracco (www.bracco.it), Istituto di Ricerche Biomediche "Antoine Marxer"-RBM, Sorin Biomedica (www.sorincardio.com), Sorin Diagnostici (www.diasorin.com), Antibioticos (www.antibioticos.it), UBC, Solvay Pharma (www.solvay.it) and L'Oréal (www.loreal.com)
- Innovative companies growing in the pharmaceutical, parapharmaceutical and diagnostics sectors, as shown by the cases of Medestea (www.medestea.it), A. Costantino (www.costantino.it), Sicor (www.sicor.it), Bioindustria L.I.M. (www.bioindustria.it), Procos (www.procos.it), Amnol (www.amnol.it), Unibios - ABC Farmaceutici (www.unibios.it) ...
- ... and in other sectors where the competencies in the Life Sciences are an element of competitiveness, such as food (Gruppo Mofin Alce – www.mofinalce.it) and the environment (BSA Ambiente – www.bsaplanet.com, Novamont – www.novamont.it)
- R&D centres, concentrated mainly in clusters located in and around Torino, specialize in the sectors of health – mainly oncology and immunology, the central nervous system, proteomics, imaging, molecular biology and the environment



Scientific base

Università di Torino (www.unito.it) and **Università Piemonte Orientale** (www.unipmn.it), with their scientific departments and with the **Interfaculty Biotechnology School**

(<http://biotec.campusnet.unito.it>) represent a group of centres of scientific competency of absolute excellence in the field of human health, food and agriculture.

The Politecnico di Torino (www.polito.it), in particular with its Mechanical, Materials and Electronics Engineering departments, ensures the convergence of the different technologies.

ILO Piemonte-Industrial Liaison Office
www.ilopiemonte.it

ILO Piemonte stems from a synergy project between Piemonte's universities for the transfer of technology and knowledge between academic research centres and businesses. It has the objective of fostering high potential projects, to make the best use of the research results and help to transfer them, facilitating the encounter between companies' demand for innovation and what the academic world can offer, supporting the growth in competitiveness of firms operating in the region.

For further information:

www.piemontelifesciences.org

Incubators

Discovery

www.bioindustriypark.it/discovery

More than a simple incubator, Discovery is a selector of ideas backed by a qualified network of private investors, that provides startups with seed-capital and helps them onto the market. It is based at the Bioindustry Park del Canavese (Torino), and is run with the support of the Regional Government in cooperation with Eporgen Venture (www.eporgen.com).

2i3t

www.2i3t.it

Two technology incubators based in Torino, specializing in the chemistry, pharmaceuticals and biotechnology fields, provide startups with equipped labs and cutting edge shared facilities.



Technology transfer

The science and technology parks together with the business incubators contribute to the technology transfer system in Piemonte. In particular, the Environment Park (www.envipark.com), dedicated to renewable energy, is the seat of Clean NT Lab (www.cleanntlab.com) which conducts research on innovative coatings, and Tecnogranda (www.tecnogranda.it) develops technologies regarding the production, characterisation and pre-industrialisation in its own Nanolab.



www.bioindustriypark.eu

The Bioindustry Park, based near Torino and fully operational since 1998, promotes and develops biotechnological research, hosting enterprises which want to set up laboratories and pilot production facilities in the life sciences sector. It offers support, research facilities and scientific services, through

its own laboratory LIMA. Big companies have chosen the Park as a location, also becoming strong shareholders side by side with local authorities: an example is Bracco Imaging, which has set up its own new Research Center in the Park, a unique facility in the Italian life sciences industry. The park aims also at creating value around scientific results, performing technology transfer and supporting the creation of new companies, mainly through the Discovery initiative and incubator. To foster this process, various national and international agreements are in force, especially with Toscana Life Sciences (Italy), Bilbao Science Park (Spain), RAD Biomed (Israel) and the Technology Centre of New Jersey (USA). Bioindustry Park is also a founder, together with ADEBAG in Grenoble (France) and BioAlps in Geneva (Switzerland) of the BioAlpine cluster, an innovative and cooperative network which federates universities, research centres, local institutions and companies for the development of life sciences on a trans-alpine basis.

The Centre of Excellence in Preclinical Imaging – Università di Torino

The Centre, located inside the Bioindustry Park, offers universities, research centres and companies know-how and methodologies based on imaging techniques in order to facilitate and speed up the development of new diagnostic and therapeutic solutions. It is equipped with various imaging technologies such as MRI, nuclear medicine, X-ray, optical imaging, ultrasound, PET-SPECT technologies and is coupled sinergetically with facilities and labs of companies located in the park area e.g. Bracco Imaging, AAA, Istituto di Ricerche Biomediche “Antoine Marxer” RBM controlled by Merck-Serono etc.

Research excellence

Oncology, Immunology, Central Nervous System, Proteomics, Bioengineering, Bioinformatics

Institute for Cancer Research and Treatment

www.ircc.it

IRCC, a private non-profit institution, has the mission to make a significant contribution to fighting cancer by understanding the basics and by providing optimal diagnostic and therapeutic services. It hosts 2 divisions and 4 laboratories with clinical facilities and over 100 international researchers. IRCC houses one of the five Italian Centers for Advanced Scientific Research established in 1997 by the G. Armenise - Harvard Foundation, devoted to the study of signal transduction in normal and cancer cells.

CNR-National Research Council

www.area.to.cnr.it

At regional level CNR offers a set of R&D laboratories with over 160 researchers, specialising mainly in phytovirology, proteomics and agro-food, immunogenetics and oncology, mycology.

Oncology Department Ospedale Molinette, Torino

www.molinette.piemonte.it/Oncologia

The department runs research activities thanks to the interaction between various medical, surgical and diagnostic specialisations - such as pathological anatomy with research laboratories of molecular biology, tumour immunology, and cytogenetics - of cancer radiology treatment and evaluation by epidemiologists. Most of these activities are run within the Centro Oncologico Ematologico Subalpino (C.O.E.S). The same centre also houses the Centro di Ricerca di Medicina Sperimentale (C.E.R.M.S.) where basic and translational research are run aimed at various

sectors, from onco-hematology to molecular diagnostics for the identification of new pharmacological therapies, to the experimentation of anti-tumour vaccines and the search for innovative therapeutic protocols, through clinical trials to be brought alongside existing ones for the various kinds of tumour.

Tera Foundation for Oncological Hadrontherapy

www.tera.it

Tera develops radiotherapy techniques based on the use of hadron particles, and applications of physics and informatics to medicine and biology. Hadrontherapy makes use of beams of protons (hydrogen ions), carbon ions and neutrons.

Edo Tempia Foundation

www.fondoedotempia.it

The non-profit institution focuses on the study of genic expression in tumoral tissues. The pharmacogenomics research lab is based on the availability of state of the art microarrays technology, and activities are ongoing both for the use of microarrays techniques in pre-clinical studies and for the study of molecular profile of tumours in order to improve diagnosis.

Bioindustry Park LIMA laboratory

www.bioindustrypark.eu

LIMA works on a basis of 5 synergic, complementary platforms (Molecular Biology, Proteomics, Chemistry and Structural Biology, Imaging, Bioinformatics), supported by state of the art scientific equipment. Moreover, LIMA provides a centre for training on analytical and research methodologies and techniques, where researchers from public institutions and industry can interact.

Strong competencies also in micro- and nanotechnologies

Latemar

www.latemar.polito.it

focuses on the development of advanced devices for diagnostics and therapeutics in the biomedical, pharmacological and food fields, in particular for DNA, RNA, proteins, molecular and cells analysis

NIS – Nanostructured Interfaces and Surfaces

www.nis.unito.it

performs basic research and offers applied research services

DISMIC – Department of Materials Science and Chemical Engineering

www.dismic.polito.it

Nano-SISTEMI

<http://nanosistemi.dista.unipmn.it>

ISTEC – Istituto di Scienza e Tecnologia dei Materiali Ceramici

www.istec.cnr.it

INRIM – National Institute of Metrological Research

www.inrim.it

Resources available

*for new investments in industry,
research and services*

Cavalieri Ottolenghi Foundation

www.ottolenghi.unito.it

The Foundation performs research of excellence in basic neurosciences oriented towards the prevention, diagnostics, and cure of neurological disorders. It also studies the molecular mechanisms that regulate normal nerve growth and nerve damage and repair, and investigate on the molecular mechanisms of neuronal ageing, and how normal ageing is affected in diseases like Alzheimer.

NIT-Neuroscience Institute of Torino

www.centronit.unito.it

The Institute promotes and runs experimental, theoretical and applied research in the field of the neurosciences, from the study of the cellular and molecular bases of the nervous system to the analysis of advanced integrative and mental activity functions, in normal and pathological conditions.

LISiN

www.lisin.polito.it

The Department of Electronics is home to the Laboratory of Engineering of the Neuromuscular System and Motor Rehabilitation. It focuses on three main areas: the hardware and software design, which provides prototypes of biomedical equipment and promotes technological transfer towards partner companies for final engineering and small series production; signal processing and modelling, which provides the mathematical tools for the simulation, interpretation and extraction of information from the EMG signals; basic physiology and clinical applications.

The network of clinical facilities, including university ones, makes it possible to conduct clinical trials of high quality level. Over 80 hospitals with 20,000 beds are present in Piemonte, that can potentially act as clinical network in strict connection with research institutions.

The Regional Investment Contract

The RIC is an innovative financial tool managed by Piemonte Agency, aimed to encourage the arrival and development of investments in industry, services and research from abroad.

Beneficiaries: small, medium and large companies wishing to locate an operating unit in Piemonte

Sectors: production of innovative goods and services, renewable energy

Initiatives: creation of new production or service facilities and headquarters, restructuring or conversion of an existing production plant or re-activation of inactive plants or facilities, creation of R&D centres, competency and design centres, laboratories; development of research projects

Guarantees: rapidity and certainty of timing for administrative procedures, investment support with grants or soft loans, the commitment of the local authorities, universities and research bodies involved for the creation of infrastructures, the running of research activities in cooperation with the company, assistance in all stages of the project

For further information about the Regional Investment Contract, contact Piemonte Agency:
investment.contract@centroestero.org

Incentives and grants

Resources are also available within the EU and regional financial framework 2007-2013

- POR (Regional Operational Programme) 2007-2013: over half the funds are dedicated to R&D and innovation
- Regional Law number 4/2006: aimed to support SMEs R&D and innovation programmes
- Regional Law number 34/2004: aimed to support R&D and innovation especially for collaborative research, technology platforms and internationalisation

For further information on incentives and grants in Piemonte, please contact Piemonte Agency:
investment@centroestero.org

Centro Estero per l'Internazionalizzazione Piemonte Agency for Investments, Export and Tourism

Piemonte Agency is the first Italian agency dedicated to internationalisation that brings together institutional development actors, public and private business associations, the academic and research worlds. Piemonte Agency focuses chiefly on attracting foreign direct investment, increasing the presence of local companies and their competitiveness on international markets, and promoting the region's tourist offer and products worldwide. Piemonte Agency is the unique, free reference point for companies wishing to locate in Piemonte.

Promoting members



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