



HEALTH AND MEDICAL INDUSTRY

CUTTING EDGE OF TECHNOLOGICAL PROGRESS

Health and medical technology is a dynamic and innovative sector in Normandy, encompassing a wide range of healthcare products, technologies and services used to diagnose, monitor or treat diseases and medical conditions. Normandy has a long R&D and industrial tradition in biomedical, pharmaceutical and nuclear physics applied to health.

INNOVATION, RESEARCH & DEVELOPMENT

2 Teaching University Hospitals

INSERM/CNRS/INRA/CEA
labeled laboratories

11 national centers of excellence

922 healthcare structures

30 000 jobs

3200 researchers

2nd most important region in France for pharmaceutical chemistry

1st French region on interventional cancer research

2 billion € turnover

Over 180 industrial establishments

MAIN COMPANIES

Aspen • Pfizer
Johnson&Johnson • Servier
MSD Santé animale
Farmaclair • Groupe Bateur
Glaxo Smith Kline
Lisi Orthodeadics • IBA
Sanofi • Cyclopharma
Aptar...

► NUCLEAR PHYSICS APPLIED TO HEALTH

GANIL (www.ganil-spiral2.eu)

One of the world's leading laboratories in the field of ion beam research.

LARIA (www.jacob.cea.fr/laria.aspx)

Research Laboratory and open facility for radiation biology with Accelerated Ions.

CYCERON (www.cyceron.fr)

Biological imaging platform of 6,000m².

ARCHADE CAEN (www.archade.fr)

Advanced resource center for Hadrontherapy (protons and carbon) in Europe.

LABEX IRON (www.labex-iron.com)

"Innovative Radiopharmaceuticals in Oncology and Neurology" laboratory of excellence. Develop innovative radiopharmaceuticals and transfer them to the clinic for molecular imaging diagnosis (PET: Positron Emission Tomography).

► ONCOLOGY

Like all Cancer Care Centers (CLCC), these centers have a threefold mission of research, training and patient care.

FRANÇOIS BACLESSE CENTER (www.baclesse.fr)

167 beds / +26 000 patients per year.

HENRI-BECQUEREL CENTER

(www.becquerel.fr)

125 beds / + 24 000 patients per year.

► UNIVERSITY HOSPITAL

CAEN UNIVERSITY HOSPITAL

(www.chu-caen.fr)

Referral hospital for medical & surgical specialties with a national reputation for medical and pharmaceutical healthcare, research & training. 43 research units.

ROUEN UNIVERSITY HOSPITAL

(www.chu-rouen.fr)

Clinical Research and Innovation Department (DRCI) registered more than 364 new biomedical research studies. The areas of excellence are, cardiology (aortic stenosis), genetics, gynecology (endometriosis center), dermatology (bullous diseases), mini-invasive thoracic surgery assisted by robot...

► LABORATORIES

LABEX SYNORG

(www.labex-synorg.fr/en)

The largest group of French organic synthesis laboratories. Their research is geared towards the methodology of synthesis and is aimed at finding applications in life sciences. It opens the door to the discovery and synthesis of new pharmacologically active compounds.

INNOVATION CHIMIE CARNOT (I2C) (www.instituts-carnot.eu)

The association Carnot I2C brings together 8 research entities from Normandy:

CERMN: drug design & testing

COBRA: Organic and analytical chemistry laboratory

GLYCOMEY: Glycobiology and plant extracellular matrix

LCMT: molecular and thioorganic chemistry

ISTCT: Imaging and therapeutical strategies in cerebral and tumoral pathologies

PBS: Multidisciplinary research at the interface between the physical sciences and the sciences of life

SMS (Sciences and separation methods): Crystallogenes and chromatography

URCOM: pharmaceutical-rich organs and complex systems based on polysaccharides

TRAINING



▶ **NORMANDY UNIVERSITY** (www.normandie-univ.fr)

2050 research professors, 750 formations, 70 000 curricula including 18 000 master students and 5 200 engineering students.

FACULTY OF MEDICINE AND PHARMACY: Specialized courses in biochemistry, molecular biology, health engineering, microbiology, bio informatics, cellular imaging, behavioral neurosciences, immunology, genetics chemistry, physical chemistry of drugs, E-health...



▶ **MEDICAL TRAINING CENTER** (www.mtc.chu-rouen.fr)

MTC Rouen Normandy provides a wide range of cutting edge medical techniques in optimal learning conditions.



▶ **ENSICAEN ENGINEERING SCHOOL** (www.ensicaen.fr)

International Master of Science SNEAM with a specialization in Nuclear Technologies for Medical Applications (NUTMA).



▶ **ESITECH** (www.esitech.univ-rouen.fr/en)

Engineering School for Innovative Technologies, trains general engineers with two possible majors: Physical engineering and biological engineering.



▶ **INSA** (www.insa-rouen.fr)

Engineering school - fine chemistry, chemical process engineering and polymer materials.

SERVICES & SUPPORTS



▶ **NUCLEOPOLIS CLUSTER** (www.nucleopolis.com)

Nucleopolis focuses on the development of collaborative projects in different fields such as diagnosis, biological imaging, instrumentation, radiopharmaceutical production and radiotherapy.



▶ **POLEPHARMA** (www.polepharma.com)

Polepharma is the federation of Europe's leading pharmaceutical production basin, with 53 % of drug production in France and nearly 60,000 jobs. Its role is to enhance the economic and industrial development of the players in the leading French pharmaceutical sector through actions promoting competitiveness, innovation and attractiveness.



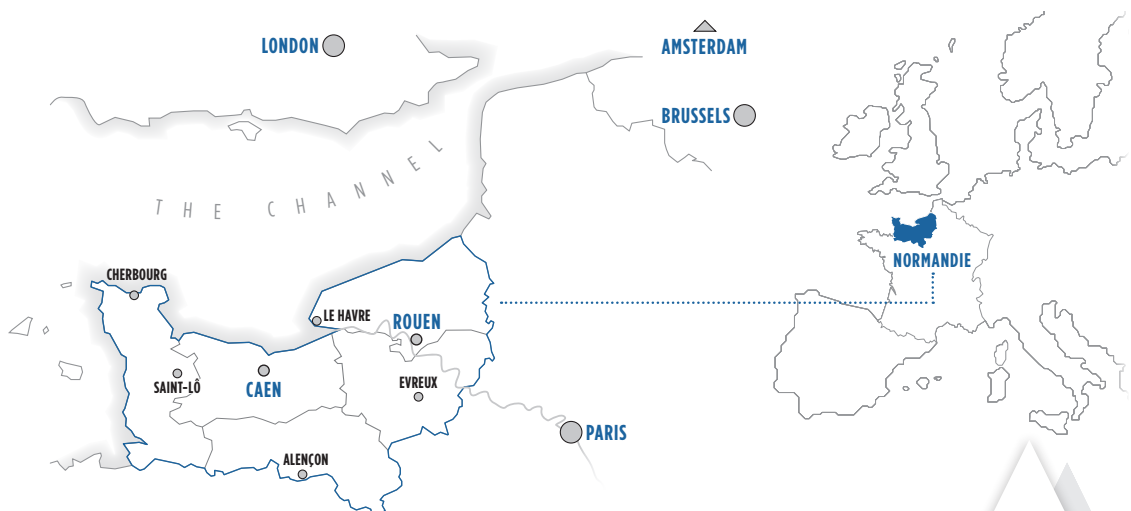
▶ **POLE TES** (www.pole-tes.com)

The e-secure Transaction Cluster aims to be the benchmark for innovation in high digital technology in the areas of health, the community, the tourism and the agriculture, connected.



▶ **AD NORMANDIE** (www.adnormandie.fr/en)

The regional agency for economic development is the representative of Business France Invest in Normandy. AD Normandie extends a whole range of services to foreign investors setting up their businesses in Normandy. AD Normandie is also the coordinator of **Normandie Santé**, a regional common brand.



CONTACT



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