



HEALTH ECONOMY

2 Teaching University Hospitals

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..

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

► NUCLEAR PHYSICS APPLIED TO HEALTH

GANIL (<http://pro.ganil-spiral2.eu>)
One of the world's leading laboratories in the field of ion beam research.

LARIA
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.

► ONCOLOGY

FRANÇOIS BACLESSE CENTER (www.baclesse.fr)
Comprehensive cancer care center for research, training and patient care.

HENRI-BECQUEREL CENTER (www.becquerel.fr)
They are mobilized in research closely with medical services and scientific departments.

BIOTICLA (www.bioticla.fr)
Dedicated research unit to fight against cancer through identification of risk factors y means of innovation in terms of diagnostic and therapeutic tools.

► 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...

► UNIVERSITY STRUCTURE AND LABORATORIES

NORMANDIE VALORISATION

(www.normandie-valo.fr)

This structure has to facilitate the achievement of a sufficient degree of maturity for the innovations, inventions coming from the Establishments members of Normandy University so as to allow their transfert to the socio-economic world.

INNOVATION CHIMIE CARNOT (I2C)

(www.instituts-carnot.eu)

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

CERNM: drug design & testing
COBRA: Organic and analytical chemistry laboratory

GLYCOMEV: Glycobiology and plant extracellular matrix

LCMT: molecular and thioorganic chemistry

ISTCT: Imaging and therapeutical strategies in cerebral and tumoral pathologies

PBS: Mutlidisciplinary research at the interface between the physical sciences and the sciences of live

SMS (Sciences and separation methods): Cristallogenesis 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 students including 18 000 master students and 5 200 engineering students.

FACULTY OF MEDICINE AND PHARMACY: Specialized courses in biochemistry, molecular biology, health engineering, microbiology, analysis, control and expertise in agrochemical and bio-industries, bio informatics, cellular imaging, behavior neurosciences, physiology, 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)

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 field such as diagnosis, biological imaging, instrumentation, radiopharmaceutical production and radiotherapy.



► **POLEPHARMA** (www.polepharma.com)

Interregional cluster which has 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. It represents an ecosystem of over 150 members.



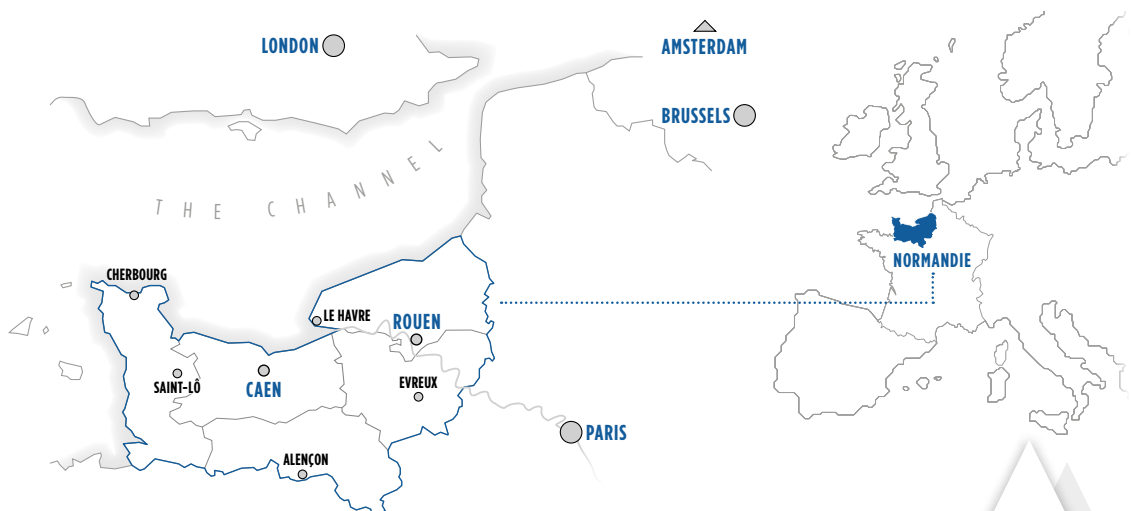
► **NORMAN HEALTHTECH NETWORK** (www.healthtech.lafrenchtech.com)

This thematic network federates the startups of the e-health, biotech and medtech sectors.



► **AD NORMANDIE** (www.adnormandie.fr)

AD Normandie (regional agency for economic development) works closely with companies for improving local competitiveness. **Representative of Business France Invest** in Normandy, AD Normandie extends a whole range of services to foreign investors setting up their businesses in Normandy.



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