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. The particularity of the territory’s areas of excellence in health is the presence of the entire value chain, from research to subcontracting and finally distribution to the end customer.

**INNOVATION, RESEARCH & DEVELOPMENT**

- **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** (https://urlz.fr/fq2U)
    - Research Laboratory and open facility for radiology biology with Accelerated Ions.
  - **CYCERON** (www.cyceron.fr)
    - A 6,000m² biological imaging platform.
  - **ARCHADE CAEN** (www.archade.fr)
    - Advanced resource center for Hadrontherapy (protons and carbon) in Europe.
  - **LABEX IRON** (www.labex-iron.com/en)
    - Innovative Radiopharmaceuticals in Oncology and Neurology laboratory of excellence. Develops innovative radiopharmaceuticals and transfers them to the clinic for molecular imaging diagnosis.

- **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.

ROUEN UNIVERSITY HOSPITAL (www.chu-rouen.fr)

Clinical Research and Innovation Department (DRCI) with more than 364 registered 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 consortium of French organic synthesis laboratories. Their research is geared towards synthesis methodology aimed at finding applications in life sciences. LABEX fosters the discovery and synthesis of new pharmacologically active compounds.

**INNOVATION, RESEARCH & DEVELOPMENT**

INDUSTRIES & SERVICES IN NORMANDY

HEALTH & MEDICAL INDUSTRY IN NORMANDY

- **Teaching University Hospitals**
- **INSERM/CNRS/INRA/CEA** accredited laboratories
- **11** national centers of excellence
- **922** healthcare structures
- **30 000** jobs
- **3 200** 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 • Delpharm
- Johnson & Johnson • Servier
- MSD Santé animale
- Famaclair
- Glaxo Smith Kline
- Lisi Orthoedic • IBA
- Sanofi • Batteur • Aptar
- Nipro Pharmapackaging...

**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. The particularity of the territory’s areas of excellence in health is the presence of the entire value chain, from research to subcontracting and finally distribution to the end customer.
TRAINING

▸ NORMANDY UNIVERSITY (www.normandie-univ.fr)
2050 research professors, 750 curricula, 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, bioinformatics, 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

▸ NORMANDIE ENERGIES (www.normandie-energies.com/nucleopolis/)
The Nucleopolis division of Normandie Energies 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 digital cluster aims to be the benchmark for innovation in high digital technology particularly in the field of health: integration of adapted digital solutions throughout the patient journey; IoT and medical devices; AI for diagnostic support, health data monitoring; digital transformation of healthcare institutions.

▸ 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.

CONTACT

Nesrine LANGIN
nesrine.langin@adnormandie.fr
Phone: +33 (0)2 14 47 62 06 / (0)6 02 00 99 12