

SHAKE THE FUTURE.



CENTRALE NANTES

*Research Intensive
Institute of Technology*

French 'Grande Ecole'

July 2019

Nantes

SHAKE THE FUTURE.

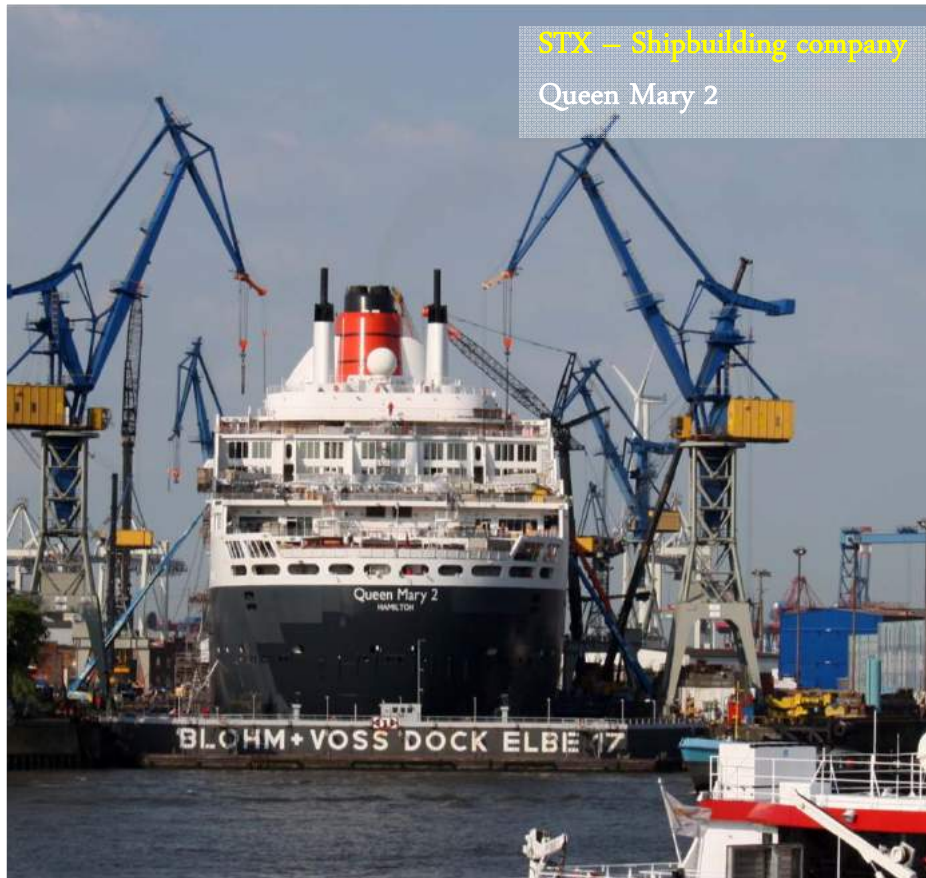


- > Population: 800,000
- > 5th largest city in France
- > 60,000 students
- > 2 hrs from Paris by high speed train



The unique industrial environment of Centrale Nantes

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Centrale Nantes at a glance



- > Tradition dating back to 1919
- > Bachelor, Masters & PhD programmes
- > Comprehensive approach to engineering sciences
- > Advanced Scientific and Technological level combined with Management & Soft skills
- > Project work

Centrale Group - The five Ecoles Centrale - Lille, Lyon, Nantes, Paris and Marseille - share the same vision of excellence in general engineering higher education



Reasons to choose Centrale Nantes

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A TOP-RANKING SCHOOL

- > In the global top 25 for student mobility (U-multirank 2019)
- > 4th for engineering in France (Times Higher Education 2019)



CUTTING-EDGE RESEARCH

- > 6 research institutes
- > 12 unrivalled research platforms
- > 260 PhD students
- > 1 CNRS medal



WORKING HAND-IN-HAND WITH INDUSTRY

- > 26 industrial partners
- > 250 speakers from industry
- > Over 4,000 industrial projects per year
- > Work experience built into each programme
- > 120 company conferences and site visits per year



RESOLUTELY INTERNATIONAL

- > 188 academic partners in 52 countries
- > 43% of international students on campus
- > 87 nationalities on campus
- > 24 % secure first employment abroad



LEARN FROM OUR LEADING FACULTY

- > 550 teachers and research personnel from France and overseas



A LIVELY, GREEN CAMPUS

- > 40 acres on the riverside
- > 80 student clubs and associations
- > Excellent sports facilities (artificial pitch, gymnasium, squash courts, dojo)
- > Halls of residence (guaranteed place for first year students)



NANTES

- > Consistently ranked as one of the best places to live in France
- > 60,000 students
- > A thriving economy



A WIDE RANGE OF PROGRAMMES

- > Bachelor of Science (Hons) in Engineering
- > Engineering Programme (Diplôme d'Ingénieur)
- > 6 Masters and 4 Erasmus Mundus Joint Master Degrees
- > Advanced Masters (Mastères Spécialisés)
- > PhD
- > Executive Education



EXPLORE OPPORTUNITIES

- > Innovative project-based teaching
- > Careers support
- > A joint business incubator with Audencia Business School and ensa Nantes
- > 84% of our engineering programme graduates are in post within 2 months



GLOBAL ALUMNI COMMUNITY

- > 17,000 alumni in 44 countries, 450 events per year

Centrale Nantes rankings

Centrale Nantes joins the prestigious Times Higher Education World University Rankings



Out of only 903 establishments ranked worldwide for Engineering & Technology, Centrale Nantes is in ranked 4th in France (Times Higher Education World University Rankings)

Centrale Nantes in the top 25 global performing universities for student mobility in 2019



Centrale Nantes: 6th place in the world's best performing institutions for student mobility, out of over 1700 in the ranking (U-Multirank 2019). Centrale Nantes stands out in three categories: international opening, knowledge transfer and research.



Centrale Nantes is ranked in the top 200 - and joint second in France - of the world's best universities for social and economic impact in the first edition of the Times Higher Education (THE) University Impact Rankings.

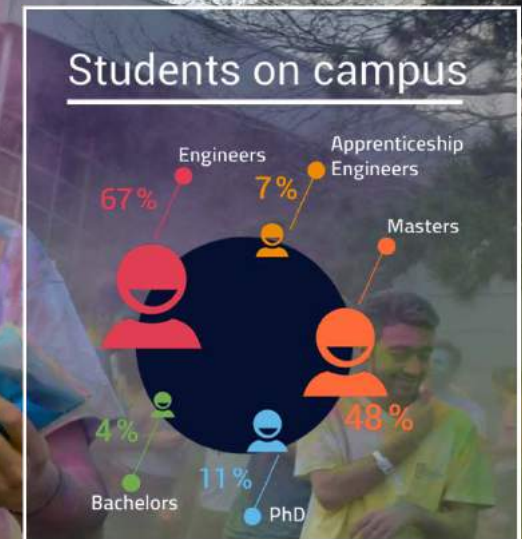


International experience

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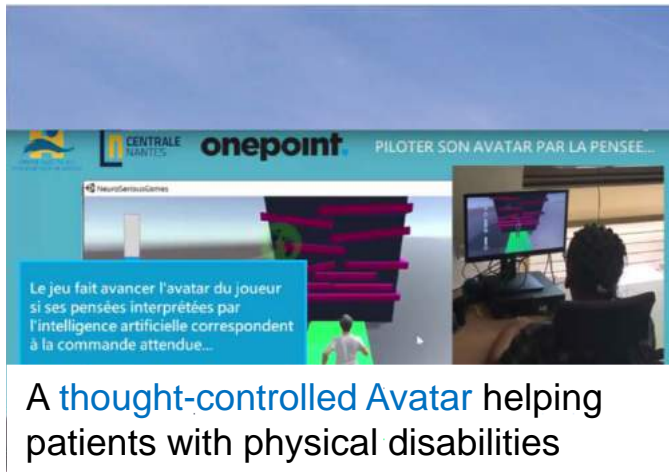


- > 87 nationalities
- > 43% international students on campus
- > 188 university partners across 52 countries



Cutting-edge research centred on Manufacturing, Energy transition & Engineering for Health

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A thought-controlled Avatar helping patients with physical disabilities

Floatgen, the **first floating wind turbine** installed off the French coast

Centrale Nantes SEM-REV test site



First full-scale propeller blade demonstrator for military applications printed using additive manufacturing.



6 Internationally-recognised research institutes

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Our **CNRS research institutes** deploy an interdisciplinary approach to address three major challenges for growth and innovation: factory of the future, energy transition and engineering for health

- > Research Laboratory in **Hydrodynamics, Energetics & Atmospheric Environment** (LHEEA)
- > Laboratory of **Digital Sciences** of Nantes (LS2N)
- > Research Institute in **Civil & Mechanical Engineering** (GeM)
- > Jean Leray' **Mathematical** Institute
- > **Architectural** and **Urban Ambiances** Laboratory
- > **High Performance Computing** Institute (ICI) with a supercomputer

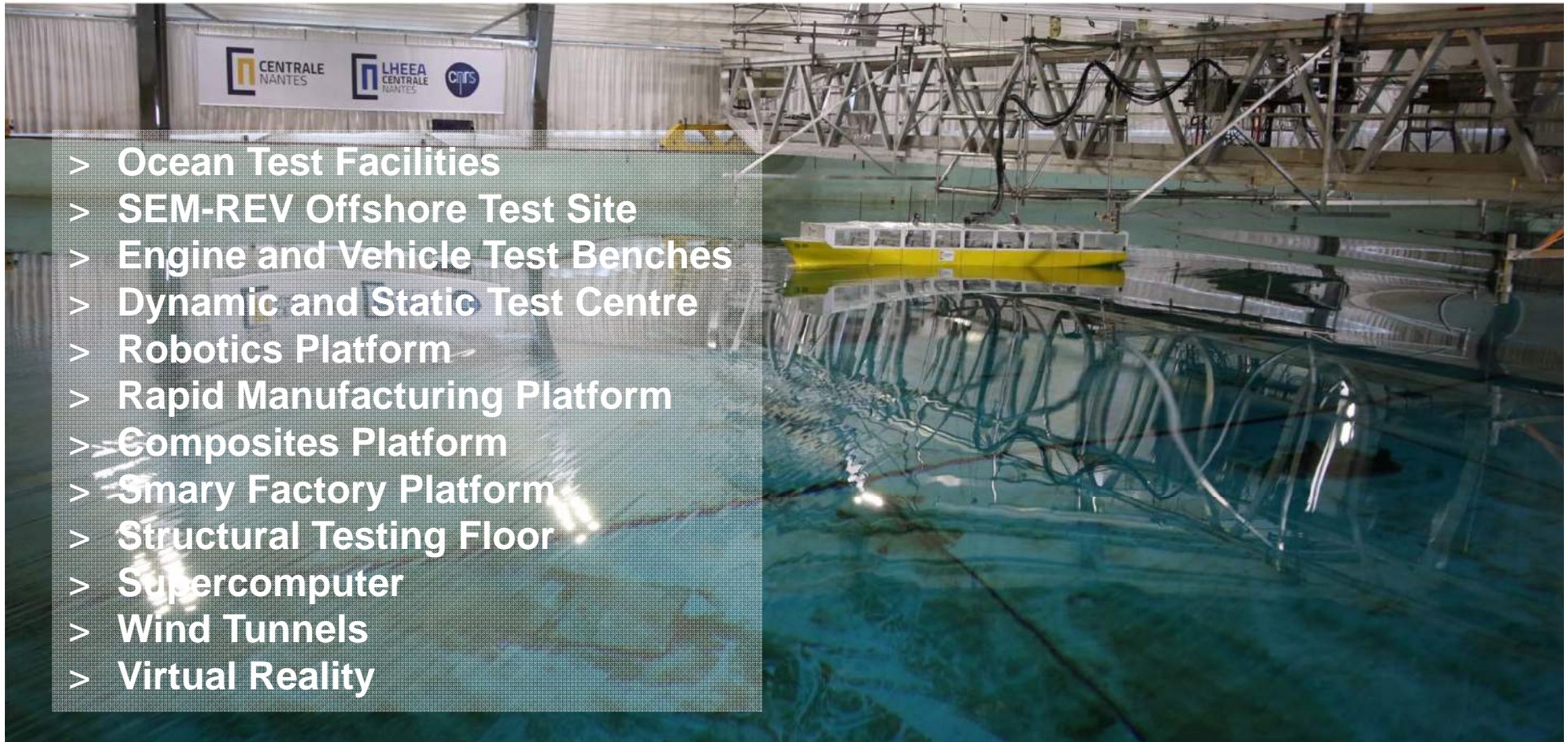


12 Experimental Research Platforms

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- > Ocean Test Facilities
- > SEM-REV Offshore Test Site
- > Engine and Vehicle Test Benches
- > Dynamic and Static Test Centre
- > Robotics Platform
- > Rapid Manufacturing Platform
- > Composites Platform
- > Smart Factory Platform
- > Structural Testing Floor
- > Supercomputer
- > Wind Tunnels
- > Virtual Reality



Synergies between research, innovation and education

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BUSINESS LUNCH PME

STARTUP

**BOOST
YOUR TALENT**

**DES ENTREPRISES
ET STARTUPS VIENNENT
TE RECRUTER !**

+100 contracts/year

- > **Research collaborations**
- > **Transfer of technology**
- > **Experimental or numerical tests,
consulting expertise...**

12 Industrial Research Chairs



Working hand-in-hand with industry

Centrale Nantes works hand-in-hand with industry: company visits, internships, projects, participation of external speakers in courses, conferences, partner days, interview simulations, job or internship offers etc.

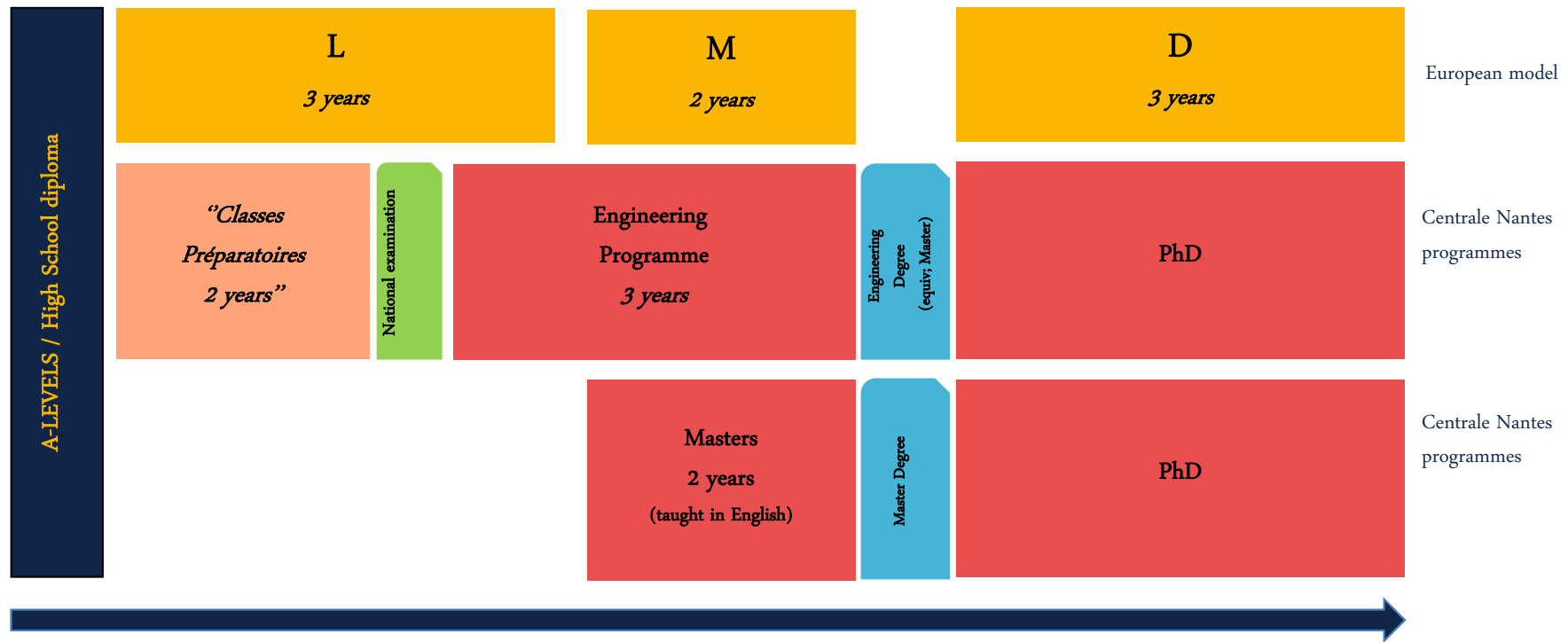
Industrial research chairs:



Some of our industri



Higher education models



The admissions process is highly selective. French students with excellent high school results spend two years in the intensive 'classes préparatoires aux grandes écoles' preparing for competitive entrance examinations to French engineering schools. Successful candidates then undertake three years of study at Centrale Nantes - corresponding to the senior undergraduate year and two graduate years.

Engineering Programme: a wide choice of courses for our students

21 specialisations on offer in the fields of: manufacturing; geomatic, civil and environmental engineering; structure design; ocean & energy; robotics and control; digital economy, health etc

- > Including “doctorate” and project-based specialisations
- > industrial projects
- > Integrated and remunerated internships in the 2nd year (duration 5 months) and in the 3rd year (duration 6 months)
- > Choice of 11 final year *professional* specializations
- > Learn more: <https://www.ec-nantes.fr/graduate/engineering-programme-diplome-d-ingenieur-/course-specialisations-yrs-2-3/>



2nd and 3rd year specialisations in Manufacturing



- > Embedded Control and Power Grids
- > Industrial Engineering
- > Mechanical Engineering for
Materials and Manufacturing



- > Aeronautics
- > Product Engineering
- > Robotics

2nd and 3rd year specialisations in Geomatic, Civil & Environmental Engineering



- > Civil Engineering
- > Digital City
- > Engineering Science for
Housing and Urban Environment

