



**UBO**  
Université de Bretagne Occidentale

[www.univ-brest.fr](http://www.univ-brest.fr)    

**Opening up horizons**

**UBO**  
Université de Bretagne Occidentale



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// Welcome message

## Advancing global knowledge and driving change change knowledge and driving change

The University of Western Brittany (UBO) is a multidisciplinary and multi-site university situated at the geographic and academic forefront of Brittany. Since its creation in 1971, it has remained in step with the social, economic, political, cultural and environmental changes of our societies and the challenges they face.

With its strong local presence, extensive regional network, and natural orientation towards the sea, UBO is one of the top 5 universities in the world for oceanography (5th place in the 2023 Shanghai Ranking). It also has a national and international reputation for excellence in the fields of health, humanities and social sciences, and information sciences and technologies.

As a metropolitan university, a lot of UBO's activities take place on the campuses of Brest, Quimper, and Morlaix in the western France département of Finistère. Its influence also extends to the whole Brittany region, especially through the Brittany National Higher Institute for professors and educators (INSPÉ). A new higher education and research site has also been created through the Alliance Universitaire de Bretagne agreement with Université Bretagne Sud (UBS) and Brest National School of Engineering (ENIB).

This multi-disciplinary organization supports an ambitious research and training policy designed to advance knowledge and enhance the skills of students and professionals in western Brittany and beyond.

With its vast experience in professional continuing education, it offers a wide range of work-study programmes, including apprenticeships. Through its innovative approach, UBO supports regional economic development through researcher inventiveness and graduate creativity.

And from its international outlook, UBO continues to strengthen and structure its position, both from a scientific and educational perspective, through its numerous partnerships with universities from around the world, including China, Canada, Australia, South Africa and all European Union countries. In this respect, the creation of the SEA-EU European University of the Seas, with the universities of Algarve (Portugal), Bodø, (Norway), Cadiz (Spain), Gdansk (Poland), Kiel (Germany), Malta, Naples (Italy) and Split (Croatia), is central to the activity of our entire institution.

Pascal Olivard  
President of UBO



# Brest Quimper



# Morlaix Saint-Brieuc Vannes Rennes



# OUR IDENTITY

1.1 History

1.2 Facts & Figures

1.3 Campus

1.4 Local and Regional

1.5 International

# 1.1 History

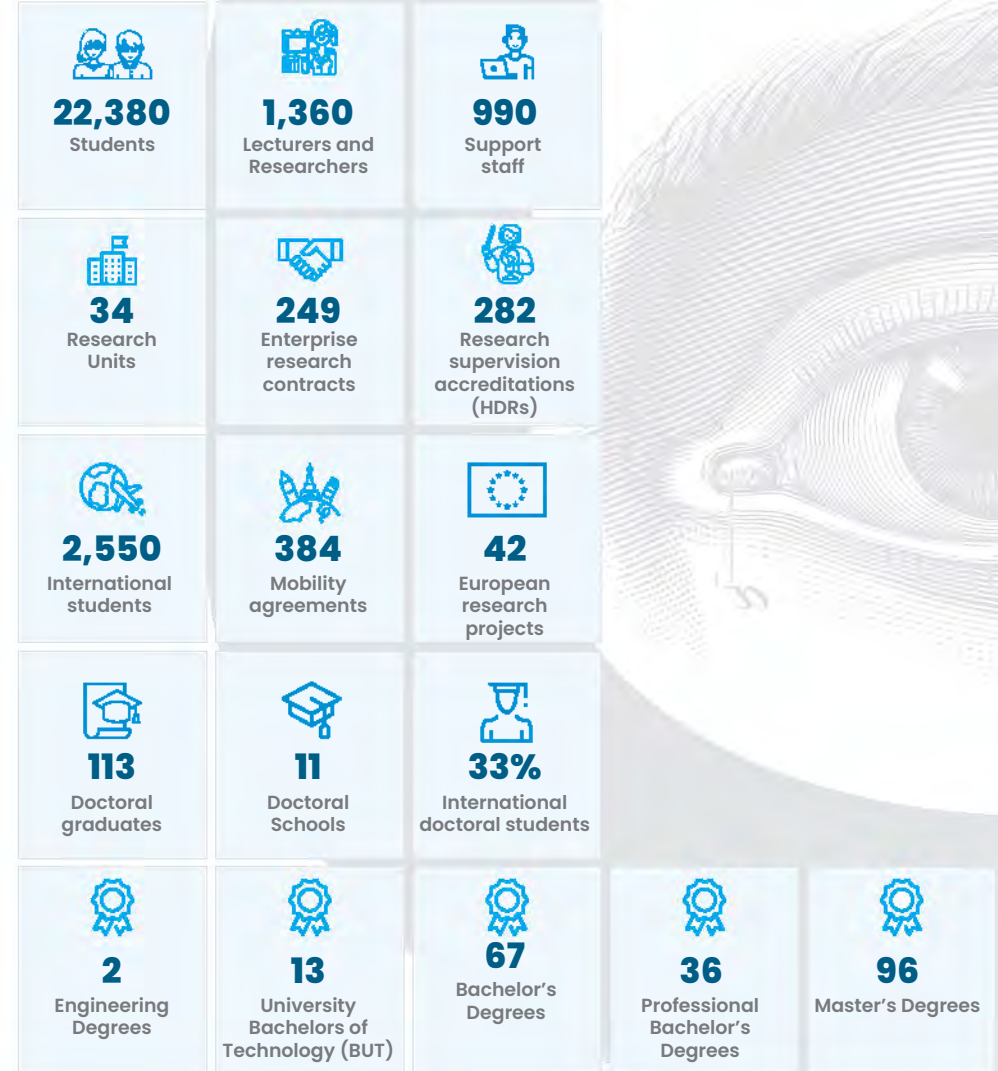


## UBO 2024

ISblue The interdisciplinary graduate school for the blue planet <b>2018</b>	SEA-EU European University of the Seas <b>2019</b>
Atlantic Brittany Higher National School of Agri-Food Engineering (ESIAB) <b>2012</b>	The Brittany National Higher Institute for professors and educators (INSPÉ) <b>2013</b>
University School of Management (IAE) <b>2001</b>	University Institute for Teacher Training (IUFM) <b>2007</b>
Sciences and Technology of Physical and Sporting Activities (STAPS) <b>1996</b>	European Institute for Marine Studies (IUEM) <b>1997</b>
Brest School of Microbiology and Food Safety (ESMISAB) <b>1993</b>	Pierre-Jakez-Hélias University Centre, Quimper <b>1996</b>
School of Dentistry <b>1978</b>	IPAG Business School <b>1985</b>
Literature Centre in Quimper <b>1970</b>	Creation of the University of Brest <b>1971</b>
University Institute of Technology (IUT), Brest <b>1968</b>	University Institute of Technology (IUT), Quimper <b>1969</b>
National School of Medicine <b>1966</b>	Law Institute <b>1967</b>
University College of Science <b>1959</b>	University College of Literature <b>1960</b>

# 1.2 Figures

as of 1 September 2023



# 1.3 Campuses

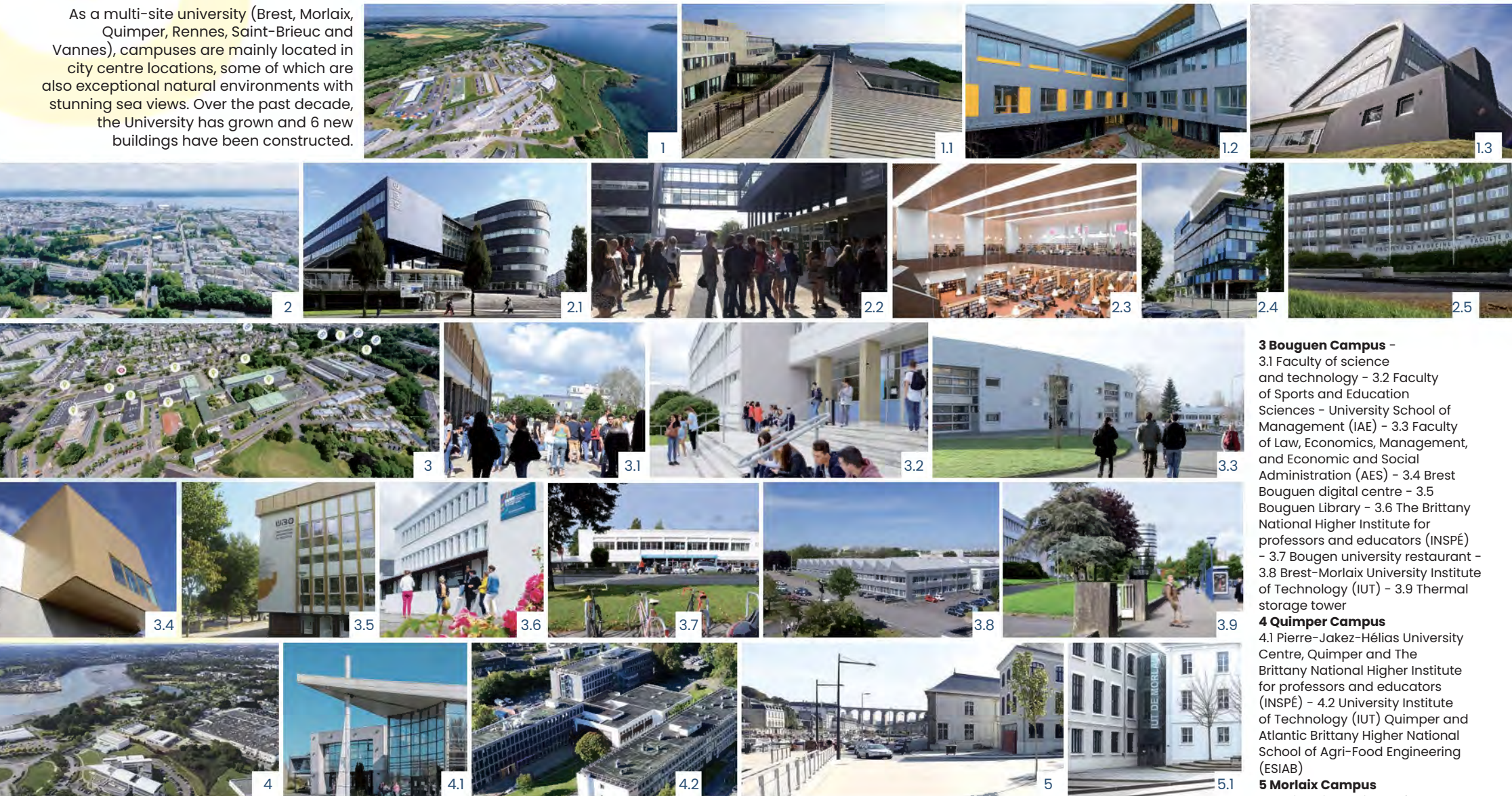
As a multi-site university (Brest, Morlaix, Quimper, Rennes, Saint-Brieuc and Vannes), campuses are mainly located in city centre locations, some of which are also exceptional natural environments with stunning sea views. Over the past decade, the University has grown and 6 new buildings have been constructed.

## 1 Brest Iroise Technopole campus

1.1. & 1.2 European Institute for Marine Studies (IUEM) - 1.3 Atlantic Brittany Higher National School of Agri-Food Engineering (ESIAB)

## 2 Downtown Campus

2.1 & 2.2 Victor Segalen Faculty of Humanities and Social Sciences - 2.3 Library, Faculty of humanities and social sciences - 2.4 Brest institute for bio-health research (IBRBS) - 2.5 Faculty of medicine



## 3 Bouguen Campus -

3.1 Faculty of science and technology - 3.2 Faculty of Sports and Education Sciences - University School of Management (IAE) - 3.3 Faculty of Law, Economics, Management, and Economic and Social Administration (AES) - 3.4 Brest Bouguen digital centre - 3.5 Bouguen Library - 3.6 The Brittany National Higher Institute for professors and educators (INSPÉ) - 3.7 Bougen university restaurant - 3.8 Brest-Morlaix University Institute of Technology (IUT) - 3.9 Thermal storage tower

## 4 Quimper Campus

4.1 Pierre-Jakez-Hélias University Centre, Quimper and The Brittany National Higher Institute for professors and educators (INSPÉ) - 4.2 University Institute of Technology (IUT) Quimper and Atlantic Brittany Higher National School of Agri-Food Engineering (ESIAB)

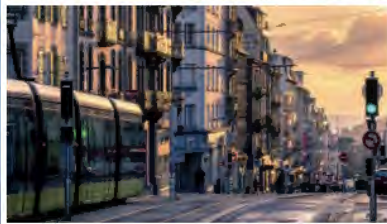
## 5 Morlaix Campus

5.1 University Institute of Technology (IUT) Morlaix

# 1.4 Local Region

Brest and the sea are synonymous, and being part of a coastal community gives our students the opportunity to access a wide range of water sports and outdoor activities.

There is also a dynamic cultural experience, including a host of concert halls and show venues. The ideal setting for studying, learning, enjoying the open air, and relaxing!



# 1.5 International

UBO's international activities are structured around several key areas. Student mobility: every year, the UBO welcomes more than 2,500 international students from around the world, and our Erasmus+ partnerships enable UBO students at all levels of study to apply for outgoing mobility opportunities in Europe.

International mobility outside Europe is also possible. UBO offers financial support to its students through mobility grants. Staff mobility: UBO is also committed to supporting the mobility of all its academic and non-academic staff.

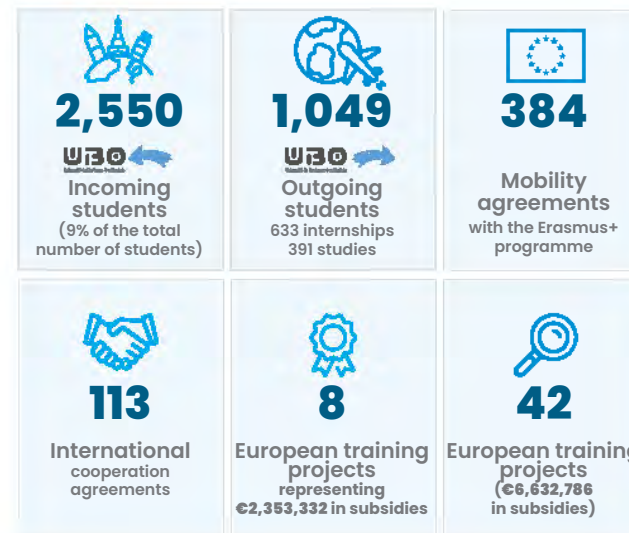
International dimension: UBO fosters the link between education and research, as is the case, for example, with our close partners in China, Morocco and Canada (Quebec). UBO is actively involved in 42 European projects, and signatory to 4 mixed and 2 associated international laboratories. UBO is also committed to supporting researcher mobility and was awarded the European Commission HR Excellence in Research label (HRS4R) in 2018.

**sea-EU**  
EUROPEAN UNIVERSITY OF THE SEAS  
UBO is a member of the SEA-EU

European University of the Seas with 8 other European partners (Cadiz, Gdansk, Kiel, Malta, Split, Algarve, Naples and Bodø). This new university model is based on both the physical and virtual mobility of students and staff between its 9 members, and built around 2 core values: European citizenship and sustainable development.



UBO implementation of the Human Resources Strategy for Researchers in the European Union (HRS4R). By building its reputation and enhancing its international visibility, UBO is committed to a global quality human resources approach that is seamlessly integrated into the HRS4R approach. It also strives to create a stimulating and supporting research environment, bringing together the whole community around common values and principles to further improve its human resources management.



Data as at 1 September 2023

# ADVANCING KNOWLEDGE

2.1 Structuring Research

2.2 Doctoral Schools

2.3 Components and Training Courses

2.4 Innovative tools for access to knowledge





# 2.1 Structuring Research

UBO contributes to creating fundamental knowledge and developing technological innovations to help address the societal challenges of tomorrow.

UBO has a multidisciplinary research ecosystem, with 4 key research areas:

- > **Humanities and Social Sciences**
- > **Health-Agri-Matter**
- > **Sea**
- > **Digital Technology and Mathematics**

UBO has an ambitious research policy underpinned by several priorities:

- > Enhancing attractiveness and the international visibility of its research units by ensuring that fundamental and applied research are complementary.

- > Preparing doctoral students to meet the scientific challenges of tomorrow.
  - > Valorizing scientific results to develop an ecosystem of innovation and be a source of new growth and job creation.
  - > Fostering seamless links between research, innovation and training.
- The University is actively developing a strategy of innovation and technology transfer to boost business competitiveness, based on four levers:
- > Mobilizing lecturer-researcher expertise.
  - > Making cutting edge scientific equipment accessible.
  - > Hosting start-ups in close proximity to research units.
  - > Developing ambitious co-financing research projects.



Data as at 1 September 2023

## TECHNOLOGICAL PLATFORM SERVICES

Technological Platform Services is a grouping of equipment, facilities and human resources. The department's highly qualified staff, in particular Research Engineers, provide scientific expertise by applying their know-how and skills. Technical and scientific collaborations are made available to the institution's researchers and lecturer-researchers, as well as to public research organizations and industry actors. **Common Animal Facility - X-ray diffraction (XRD) - Imaging and Microscopy Measurement Platform (PIMM) - Nuclear Magnetic Resonance - Electronic Paramagnetic Resonance (EPR-NMR) - Mass Spectrometry (MALDI-TOF)**

## DIGITAL TECHNOLOGY AND MATHEMATICS

**IBNM** Brest Institute of Digital Technology and Mathematics

**LAB-STICC** UMR 6285 Information and Communication Science and Technology Laboratory

**LMBA** UMR 6205 Atlantic Brittany Mathematics Laboratory

## HUMANITIES AND SOCIAL SCIENCES

**IBSHS** Brest Institute for Humanities and Social Sciences

**CECJI** EA 7289 Centre for the Study of Letters and Diaries

**CFV** UR 1161 Centre Francois Viète

**CRBC** UAR 33554 Center for Celtic and Breton Research

**CREAD** UR 3875 Education, Learning and Didactics Research Centre

Geo-architecture UR 7462 Territories, urbanization, biodiversity, environment

**HCTI** UR 4249 Heritages and Constructions in Text and Image

**LABERS** UR 3149 Study and Research in Sociology Laboratory

**LAB-LEX** UR 7480 Law Research Laboratory

**LEGO** UR 2652 Economics and Management Laboratory of Western Brittany

**LP3C** UR 1285 Psychology: Cognition, Behaviour, Communication Laboratory

## SEA

**IUEM** European Institute for Marine Studies and Observatory for Astronomy (OSU)

**AMURE** UMR 6308 Development of the uses and resources of marine and coastal areas - Centre for Law and Economics of the Sea

**IRD** UMR 6027 Dupuy de Lôme Research Institute

**LBCM** UR 3884 Marine Biotechnologies and Chemistry Laboratory

**LEMAR** UMR 6539 Marine Environmental Sciences Laboratory

**LETG** UMR 6554 Littoral and Coastline, Environment, Remote Sensing, Geomatics

**GEO OCEAN** UMR 6538 Ocean Geosciences Laboratory

**BEEP** UMR 6197 Biology and Ecology of Deep-Sea Ecosystems

**LOPS** UMR 6523 Physical and Spatial Oceanography Laboratory

## HEALTH AND AGRI-MATTER

**IBSAM** Brest Institute for Health-Agri-Environment-Matter

**IRF** UR 3142 Fungal Respiratory Infections

**CEMCA** UMR 6521 Chemistry, Molecular Electrochemistry and Analytical Chemistry Laboratory

**GGFB** UMR-S 1078 Genetics, Functional Genomics and Biotechnology

**LATIM** UMR-S 1101 Medical Information Processing Laboratory

**LBAI** UMR-S 1227 B-Lymphocytes and Auto Immunity

**GETBO** UMR 1304 Thrombosis Study Group of Western Brittany

**LIEN** UR 4685 Epithelial-Neuronal Interactions Laboratory

**LUBEM** UR 3882 Biodiversity and Microbial Ecology University Laboratory

**ORPHY** UR 4324 Optimization of Physiological Regulations

**OPTIMAG** UR 938 Optics and Magnetism Laboratory

**SPURBO** UR 7479 Primary Care, Public Health, Cancer Registry of Brittany

**CIC 1412** Clinical Investigation Centre of Brest

OSU: Observatory for Astronomy  
UMR: Joint Research Unit  
UR: Research unit

# 2.2 Doctoral Schools

spread across the Breton institutions

**1- MATHEMATICS AND INFORMATION AND COMMUNICATION SCIENCE AND TECHNOLOGY (MATHSTIC) BRETAGNE OcéANE**  
22 partner research units

17 institutions

500 HDR (research supervision accreditations) holders

1,100 doctoral students approximately

300 theses defended/year on average

**2- ENGINEERING SCIENCES**

15 partner research units

294 HDR (research supervision accreditations) holders

576 doctoral students

129 theses defended/year on average

**3- ECONOMICS AND MANAGEMENT SCIENCES**

8 partner research units

191 HDR (research supervision accreditations) holders

288 doctoral students

60 theses defended/year on average

**4- EDUCATION, LANGUAGES, INTERACTIONS, COGNITION, CLINIC, EXPERTISE**

12 partner research units

130 HDR (research supervision accreditations) holders

359 doctoral students

56 theses defended/year on average

**5- LIFE AND HEALTH SCIENCES**

47 partner research units

594 HDR (research supervision accreditations) holders

571 doctoral students

90 theses defended/year on average

**6- MARINE, LITTORAL AND COASTAL SCIENCES**

42 partner research units

228 HDR (research supervision accreditations) holders

259 doctoral students

78 theses defended/year on average

**7- ARTS, HUMANITIES AND LANGUAGES**

17 partner research units

152 HDR (research supervision accreditations) holders

405 doctoral students

53 theses defended/year on average

**8- ECOLOGY, GEOSCIENCES, AGRONOMY, FOOD**

31 partner research units

734 scientists (researchers, lecturer-researchers, engineers)

357 HDR (research supervision accreditations) holders

330 doctoral students

100 theses defended/year approximately

**9- SCIENCES OF MATTER, MOLECULES AND MATERIALS**

13 partner research units

420 HDR (research supervision accreditations) holders

504 doctoral students

147 theses defended/year on average

**10- SPACES, SOCIETIES, CULTURES**

17 partner research units

174 HDR (research supervision accreditations) holders

431 doctoral students

83 theses defended/year on average

**11- LAW AND POLITICAL SCIENCE**  
10 partner research units

230 HDR (research supervision accreditations) holders

400 doctoral students

55 theses defended/year on average

## Missions of the Collège doctoral de Bretagne:

- Raising the profile of the doctorate and overseeing its practical management.
- Implementing common procedures in compliance with the doctoral charter.
- Promoting doctors' skills and monitoring their career development.
- Coordinating the cross-disciplinary training courses.
- Creating, implementing and assessing coordinated cross-disciplinary training pathways.
- Coordinating international activities and initiatives.
- Developing a monitoring and management tool.

## 2.3 Components and training courses



THE BRITTANY NATIONAL  
HIGHER INSTITUTE  
FOR PROFESSORS  
AND EDUCATORS (INSPÉ)



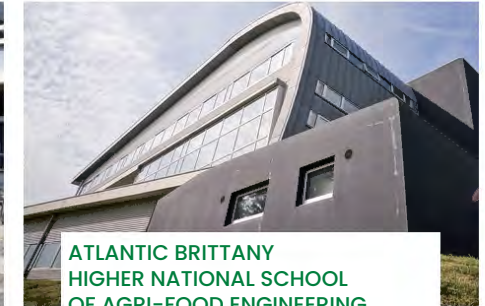
EUROPEAN  
INSTITUTE  
FOR MARINE  
STUDIES (IUEM)



FACULTY OF  
HUMANITIES  
AND SOCIAL SCIENCES



FACULTY  
OF SCIENCE  
AND TECHNOLOGY



ATLANTIC BRITTANY  
HIGHER NATIONAL SCHOOL  
OF AGRI-FOOD ENGINEERING  
(ESIAB)



UNIVERSITY  
INSTITUTE  
OF TECHNOLOGY (IUT)  
BREST-MORLAIX



UNIVERSITY  
INSTITUTE  
OF TECHNOLOGY (IUT),  
QUIMPER



FACULTY OF MEDICINE  
FACULTY OF DENTISTRY  
MIDWIFERY SCHOOL  
DEPARTMENT OF SPEECH AND  
LANGUAGE THERAPY



FACULTY OF LAW,  
ECONOMICS, MANAGEMENT &  
ECONOMIC AND SOCIAL  
ADMINISTRATION (AES)



UNIVERSITY SCHOOL  
OF MANAGEMENT  
(IAE)



IPAG  
BUSINESS  
SCHOOL



FACULTY  
OF SPORTS AND  
EDUCATION SCIENCES

The range of courses enable students to acquire theoretical knowledge, learn about research approaches and methods, and develop practical skills through workshops, industry conferences, field trips, work placements, study abroad programmes, and tutored projects. Not only is the Faculty a place of study, it is also a place of research: conferences, seminars, study days and symposiums organized by Faculty's many affiliated laboratories host researchers from France and abroad and are widely accessible to students, reinforcing the training-research link that lies at the heart of its missions.

**12 departments**

- ✓ Arts
- ✓ Foreign and Regional Languages, Literatures and Cultures\*\*
- ✓ Geography and Town and Country Planning
- ✓ Humanities
- ✓ History
- ✓ Philosophy
- ✓ History of Art and Archaeology\*
- ✓ Psychology
- ✓ Humanities
- ✓ Human Sciences, Anthropology, Ethnology
- ✓ Applied Foreign Languages\*\*
- ✓ Sociology

**8 research units**

- CAPHI** Atlantic Centre of Philosophy
- CECJI** Centre for the Study of Letters and Diaries
- CFV** Centre François Viète
- CRBC** Center for Celtic and Breton Research
- CRPC-CLCS** Research component in clinical psychopathology: Clinic of bonding and subjective creation
- HCTI** Heritages and Constructions in Text and Image
- LABERS** Study and Research in Sociology Laboratory
- LP3C** Psychology: Cognition, Behaviour, Communication Laboratory

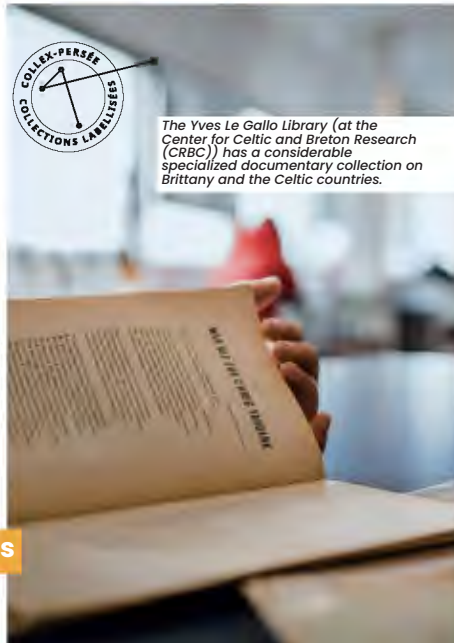
**4,000 students / 150 lecturer-researchers**



The Faculty is located in Brest city centre.



The university library has over 500 seats, a large 2-level reading room, a cafeteria, and is open to the public.



The Yves Le Gallo Library (at the Center for Celtic and Breton Research (CRBC)) has a considerable specialized documentary collection on Brittany and the Celtic countries.

# TRAINING COURSES

## HUMANITIES AND SOCIAL SCIENCES

### Bachelor's Degrees

**Human Sciences, Anthropology, Ethnology**  
• Ethnology

**Psychology**

**History of Art and Archaeology\***

- General
- Art Law and Markets
- Heritage (3-year Bachelor's Degree [L3])

**Sociology**

- Multidisciplinary Access Pathway (1-year Bachelor's Degree [L1])

**Geography and Town and Country Planning**

- Sea, environment, tourism, town and country planning, littoral and coastline
- Town and Country Planning and Urbanism

**Philosophy**

- Single-disciplinary Philosophy
- Multidisciplinary Access Pathway (1-year Bachelor's Degree [L1]) - Philosophy

**History\***

- History-Art and Archaeology\*\*
- History - Geography
- History-Political Sciences
- Multidisciplinary Access Pathway (1-year Bachelor's Degree [L1]) - History

### Professional Bachelor's Degree

**Social Interventions: specific groups**

- Managers of gerontology services

**Tourism and Leisure professions**

- Tourism product design and Regional and territorial valorization\*
- Tourism accommodation and environments\*

### Master's Degrees

**Gender Studies**

- The Body and Biopolitics
- Discrimination

**Clinical Psychology, Psychopathology and Health Psychology**

- Psychology of ageing: an integrative approach

**Tourism\***

- Management of littoral and coastal tourism activities and structures

**Social intervention and development Management and Leadership of Services and Projects**

- Ageing-Disabilities
- Childhood-Family

**Cultures and Societies**

- Cultures and Societies
- Preparation for the History agrégation competitive exam

**Psychology**

- Subjectivity and unconscious processes: trauma, suffering and exclusion
- Social representations, practices and interventions: qualitative and quantitative studies
- Cognition, learning, assessment and remediation: virtual reality and simulation

**Heritage and Museums\***

- Management of architectural, artistic and cultural heritage.

**Epistemology, History of Science and Technology**

- Cultural history of science and technology, Digital humanities and Mediations

## ART, HUMANITIES AND LANGUAGES

### Bachelor's Degrees

**Arts**

**Foreign and Regional Languages, Literatures and Cultures**

- English\*\*
- Breton
- Spanish

**Applied Foreign Languages**

- English-German
- English-Chinese\*\*
- English-Spanish\*\*
- Law-International Careers

**Humanities**

- Classics
- Modern Languages

### Master's Degrees

**Theatre and Performing Arts Master's Degree**

- Traditional music artists

**Applied Foreign Languages**

- Management of multilingual international projects

**Management of cultural projects and institutions**

- Performing Arts Management

**Translation and Interpreting**

- Technical writing - Translation

**Arts, Humanities, Cultures**

- Texts, images, foreign languages
- Preparation for higher education teaching: English

**French as a Foreign Language**

- Language, Didactics, Culture

**Humanities**

- Literature, Correspondence, Publishing
- Preparation for the higher education teacher - Literature agrégation competitive exam

**Languages and Society**

- Celtic languages and cultures: interactions

\* Course taught on Quimper campus.

\*\* Course taught on Brest and Quimper campuses.



The Faculty of Science and Technology offers a broad and varied range of courses from fundamental to engineering sciences.

It relies on the multidisciplinary activities of its 6 research units and is designed to let each student to find a pathway that matches their interests and career plans.

Many of the training courses are offered work-study programmes. The Faculty is home to students from all academic levels and from other French, European or non-European universities, and also organizes international mobility in all of its fields of study.

**10 departments**

- ✔ Biology
- ✔ Chemistry
- ✔ Geo-architecture
- ✔ Electronics
- ✔ Computer Science
- ✔ Mathematics
- ✔ Physics
- ✔ Earth Sciences
- ✔ Mechanical Engineering
- ✔ Communication, English and Humanities

**7 research units**

- CEMCA** Chemistry, Molecular Electrochemistry and Analytical Chemistry Laboratory
- GEO-ARCHITECTURE** Territories, urbanization, biodiversity, environment
- ORPHY** Optimization of Physiological Regulations Laboratory
- Lab-STICC** Information and Communication Science and Technology Laboratory
- LMBA** Atlantic Brittany Mathematics Laboratory
- OPTIMAG** Optics and Magnetism
- IRDL** Dupuy de Lôme Research Institute

**3,000 students / 250 lecturer-researchers**

**TRAINING COURSES**

**FIRST YEAR  
1-YEAR BACHELOR'S  
DEGREE [L1]**

**MPMEI**

- Mathematics, Physics, Maths-Economics, Computer Science

**ISI**

- Computer and Engineering Sciences in electronics, signals, telecommunications, networks, mechanical engineering, image and sound

**BCPG**

- Biology, Chemistry, Physics, Geology

**BACHELOR'S DEGREES**

**Computer Science**

- Application Design and Development
- Computer Engineering
- International
- Computer Science: Foundations and Applications

**Engineering Sciences**

- Image and Sound (3-year Bachelor's Degree [L3])
- Mechanical Engineering
- Electronics, signals, telecommunications, networks

**Mathematics**

- Fundamental Mathematics
- Maths PMRC (further mathematics and competitive examinations)
- Physics-Mathematics

**Mathematics and Computer Science applied to the Humanities and Social Sciences (MIASHS)**

- Maths-Economics
- Maths PMRC (further mathematics and competitive examinations)
- Financial mathematics (3-year Bachelor's Degree [L3])

**Physics, Chemistry**

- Physics
- Chemistry
- Physics and Chemistry
- Physics-Mathematics

**Life Sciences**

- Biology of organisms and populations - Environment
- Cellular and molecular biology and physiology
- Multidisciplinary BCMP (cellular

and molecular biology and physiology)

**Earth Sciences**

- Geology
- Biology and Geology
- Hydrography Shom

**Geography and Town and Country Planning**

- Town and Country Planning and Urbanism (3-year Bachelor's Degree [L3])

**PROFESSIONAL BACHELOR'S DEGREES AND DEUST (SCIENTIFIC AND TECHNICAL UNIVERSITY DIPLOMA) AS WORK-STUDY PROGRAMMES**

**Electronics careers:**

- Communication, On-board marine electronics systems

**Landscaping:**

- Coastal landscapes and natural heritage

**Building and construction professions:**

- Energy and environmental performance of buildings, Eco-responsible building design and renovation pathway

**Scientific and technical university diploma (DEUST) Interactive and Communicative Media Technician (T-MIC)**

- Technician in Interactive and Communicative Media

**MASTER'S DEGREES**

**Actuarial Science\*\***

- Biodiversity, Ecology, Evolution**
- Biodiversity Management and Conservation

**Biology, Health**

- Genetics, Genomics and Biotechnology (1-year Master's Degree [M1])
- Clinical Neurosciences (1-year Master's Degree [M1])
- Physiology and Experimental Toxicology

**Chemistry**

- Chemistry and Interfaces with Living Organisms
- Analytical Chemistry, Chemometrics, Quality - Optimization of Experimental Procedures (CACQ-OPEX)\*\*

**Electronics, Electrical Energy, Automation**

- Signals and Telecommunications\*\*
- Electronics, Radio Frequencies, and Telecommunications\*\*

**Computer Science**

- Software engineering, environmental data applications\*\*
- Software for embedded systems\*\*
- Software development for information systems
- Information technology and software engineering (work-study programme)\*/\*\*
- International
- Interactive, intelligent and autonomous systems

**Design Engineering**

- Mechanical Design - Industrial Engineering\*\*

**Image Engineering, Sound Engineering**

- Image and Sound

**Mathematics and Applications**

- Fundamental Mathematics
- Advanced mathematics for secondary and higher education
- Further studies (internal agrégation competitive exam)

**Microbiology**

- Fundamental and Applied Microbiology

**Fundamental Physics and Applications**

- Nanosciences, Nanomaterials, Nanotechnologies
- Photonics
- Physics and Instrumentation

**Networks and Telecommunications**

- Telecommunications, Networks and Cybersecurity \*\*

**Urbanism and town and country planning**

- Urbanism and Development
- Town and Country Planning and Environment

\* Year 1 Master's Degree [Master 1] (work-study)

\*\* Year 2 Master's Degree [Master 2] (work-study)

### MASTER'S DEGREES (WORK-STUDY)

#### Combining university training & industry experience

Work-study programmes are an essential part of the Science and Technology faculty's approach to **preparing students for engineering careers**. These combined study and industry practice programmes are available in year one (Computer Science) and/or year two (Actuarial Science, Chemistry, Electronics, Computer Science, Mechanics) of the Master's programme and help to strengthen the links between our

teaching teams and our local, national and international industry partners (e.g., large enterprises, SMEs, digital services companies (ESNs), and government agencies and institutes)

. As a result, our students are able to immediately apply what they have learned, enhance their skills and rapidly integrate the world of work. They also go on to further study at doctoral level, typically within the framework of CIFRE programme.

Our work-study graduates go on to work in the fields of computer science (software engineering, web, mobile applications, data), actuarial science (insurance, risk management, finance, fund management), chemistry (analytical laboratories, quality management and assurance, data scientist, process optimization), electronics (telecommunications, communicative systems, microwave frequencies, signal and image processing, cybersecurity, networks), and mechanics (mechanical design, production engineering).



Final year presentation by a Master's student on a work-study programme (Computer Science and Information Systems Software Development).

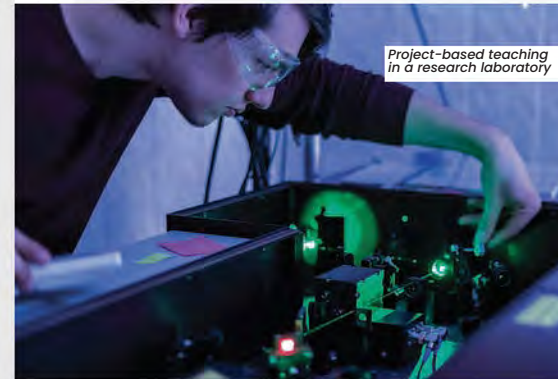
### BACHELOR'S DEGREE GEOLOGY & HYDROGRAPHY SHOM

#### Earth sciences and hydrography pathway

This interdisciplinary training course in geosciences, physics, mathematics, law of the sea, and maritime studies, the Earth Sciences Hydrography pathway is professional and hands-on, and includes 10 weeks of fieldwork (land and sea). The partnership between UBO and Shom (the French Naval Hydrographic and Oceanographic Service) enables students to gain an Earth Sciences Degree with a hydrography specialization, and the Hydrographic Technician Certificate (category B) from the International Hydrographic Organization (IHO). On completion of the course, students can go straight into a company or continue on to a Masters Degree or engineering school.



Fieldwork by Year 3 students (Earth Sciences Hydrography Shom) © Valentine David, Shom



Project-based teaching in a research laboratory

### BACHELOR'S DEGREE PHYSICS, CHEMISTRY Training through research

Undergraduate introductory research courses familiarize students with the world of research and research

careers through bibliographic tools and the acquisition of information synthesis skills. Over several days, students participate in an immersive "junior researcher" experience in a research laboratory where they are assigned projects and use state-of-the-art technology. One of the days is given over to conferences and lectures allowing them to put their theoretical knowledge into practice, and present their work in oral/written presentations and posters.

Today, global focus is on the world's oceans and coastlines. The 21st century will be the age of the sea. Here in Brest, the reputed European Institute for Marine Studies (IUEM) and the University pool their resources and skills alongside national and global organizations to develop research at the cutting edge of knowledge.

Over the years, the dedication of all IUEM staff has enabled the Institute to become a leading player in its field.

Its research is highly multi- and inter-disciplinary, and focuses on 4 key research areas:

- 1- The ocean – a major actor in the biogeochemical cycles and climate of our planet
- 2- Marine ecosystems and biodiversity
- 3- Oceanic depths that are still unexplored
- 4- Littoral and Coastline, a complex and fragile interface

### 7 research units

**AMURE** Development of the uses and resources of marine and coastal areas Centre for Law and Economics of the Sea

**BEEP** Biology and Ecology of Deep-Sea Ecosystems

**LBCM** Marine Biotechnologies and Chemistry Laboratory

**LEMAR** Marine Environmental Sciences Laboratory

**LETG** Littoral and Coastline, Environment, Remote Sensing, Geomatics

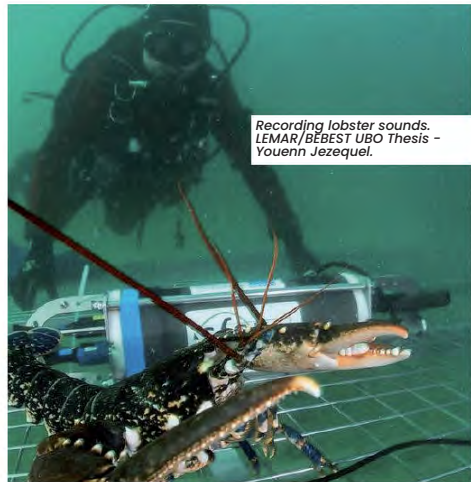
**GEO-OCEAN** Ocean Geosciences Laboratory

**LOPS** Physical and Spatial Oceanography Laboratory

**250 master's students / 200 doctoral students / 500 scientists, technicians and administrative staff**



Practical work session for biology Master's Degree students: sorting benthic fauna on board the Albert Lucas.



Recording lobster sounds. LEMAR/BEBEST UBO Thesis - Youenn Jezequel.



Located on the Brest Iroise Technopôle site, IUEM has an outstanding workplace.

ISblue, the interdisciplinary graduate school for the blue planet, is the only university research school in France specialized in marine science and technologies selected and financed under the Investments for Investments for the Future programme (PIA), as part of France 2030 programme. This further reinforces how Brittany is a leader in the field of higher education, and provides it with the means to enhance its international reputation.

**AN INTERDISCIPLINARY GRADUATE SCHOOL IN MARINE SCIENCE AND TECHNOLOGY**  
A University Research School (EURs), ISblue is based on close collaboration between universities, research organizations and engineering schools to promote all forms of training and research.

## TRAINING COURSES

### MASTER'S COURSES (1- AND 2-YEAR)

#### Biology

- Marine Biology
- Fisheries Science and Aquaculture (SHA)
- International Master of Science in Marine Biological Resources (IMBRSea)

#### Biotechnologies

- International Master's Degree in Biotechnology
- Biomolecules, microorganisms, bioprocesses
- Chemical ecology
- Product and process engineering

#### Marine Chemistry

#### Applied economics

- Agriculture, Sea, Environment

#### Environmental Management

- Expertise and management of the Littoral and Coastal Environment (EGEL)

#### Physics

- Naval Hydrodynamics
- Marine Geophysics
- Ocean and Climate Physics
- Ocean data science

#### Earth, Planetary, and Environmental Sciences

- Coastal and Littoral Resource Engineering and Management (IGRECL)

- Ocean Geosciences (GO)

#### Spaces and Maritime Activities Law

The Faculty of Medicine and Health Sciences in Brest trains doctors, health and social care professionals and researchers in human biology. The faculty is also committed to its societal role through regional health training and health education initiatives, and support for future health professionals:

- Medical demography and career guidance (3rd cycle programme) office: its objective is to consider regional needs by developing awareness-raising campaigns for medical students on the concept of medical demography.
- The Citizen University for Health Prevention (Université Citoyenne de Prévention en Santé) offers training and awareness-raising activities in the field of primary prevention (e.g., vaccinations, obesity, tobacco, cancer).

**6 research units**

**GGB** Genetics, Functional Genomics and Biotechnology -

**LATIM** Medical Information Processing Laboratory

**LBAI** B-Lymphocytes and Auto Immunity

**GETBO** Thrombosis Study

Group of Western Brittany

**LIEN** Epithelial-Neuronal Interactions Laboratory

**SPURBO** Primary Care, Public Health, Cancer Registry of Brittany

**3,000 students/170 lecturer-researchers including 158 university hospital teachers**



The Faculty of Medicine is located in Brest city centre.



Genetics, Functional Genomics and Biotechnology Laboratory



Virtual dissection session

# TRAINING COURSES

## BACHELOR'S DEGREE IN HEALTH AND SOCIAL SCIENCES

## MASTER'S DEGREE IN BIOLOGY-HEALTH

- Food, Law, Nutrition, Health
- Genetics, Genomics and Biotechnology
- Clinical Neurosciences
- Signals and Images in Biology and Medicine
- Therapeutic Patient Education and Addictology
- Occupational Risk Assessment and Prevention

## 1ST CYCLE PROGRAMME General Training Diploma in Medical Sciences (DFGSM)

- Specific Health Access Pathway (PASS)
- Bachelor's Degree (1 year) Health Access (LAS 1)
- Bachelor's Degree (2/3 year) Health Access (LAS 2/3)
- 2<sup>nd</sup> year
- 3<sup>rd</sup> year

## 2ND CYCLE PROGRAMME Diploma of Advanced Training in Medical Sciences (DFASM)

- 1<sup>st</sup> year
- 2<sup>nd</sup> year
- 3<sup>rd</sup> year

## 3RD CYCLE PROGRAMME (Diploma of Specialized Studies)

- Medical Residency – 42 diplomas

## CONTINUING EDUCATION AND TRAINING: DIPLOMA COURSES AND QUALIFICATIONS

- Over 40 University diplomas (DUs) and Inter-University diplomas (DIUs) for healthcare professionals (medical, paramedical, social and medico-social professions) and interns

\* Training also takes place in Quimper.



## UNIVERSITY DEPARTMENT OF SPEECH AND LANGUAGE THERAPY OF BRITTANY



Speech therapy.  
5 years of study

A Master's Degree diploma introduced at UBO in close partnership with the Regional University Hospital (CHRU); 25 students admitted per year. This five-year course - a total of 5,198 hours, including **2,040 hours of practical training** - gives students fundamental multidisciplinary knowledge and develops speech and language therapy intervention skills across the life course. This diploma entitles the holder to work in the medico-social sector, in private practice or in the hospital civil service, and fulfils a public health need in Brittany.

## SCHOOL OF MIDWIFERY SCIENCES



Midwife.  
5 years of study

The CHRU/UBO midwifery school trains future midwives, provides continuing education and training in gynaecology, obstetrics, and neonatology, and contributes to developing research in midwifery sciences. It admits **23 students per training year** from the UBOPASS scheme. State Diploma (DE) of Midwifery: Master's Degree, national higher education diploma, validates **5 years of studies** (two cycles over five years) that combine theoretical and clinical teaching (internships). It entitles the holder to work as a midwife (salaried and/or self-employed).

### TRAINING COURSES

#### 1<sup>st</sup> CYCLE PROGRAMME Diploma of General Training in Midwifery Sciences (DFGSM)

- Specific Health Access Pathway (PASS)
- Bachelor's Degree (1 year) Health Access (LAS 1)
- Bachelor's Degree (2/3 year) Health Access (LAS 2/3)
- 2<sup>nd</sup> year: Diploma of General Training in Midwifery Sciences (DFGSMa2)
- 3<sup>rd</sup> year DFGSMa3

#### 2<sup>nd</sup> CYCLE PROGRAMME Diploma of Advanced Training in Midwifery Sciences (DFASM)

- 1<sup>st</sup> year: Diploma of Advanced Training in Midwifery Sciences (DFASMa1)
- 2<sup>nd</sup> year: Diploma of Advanced Training in Midwifery Sciences (DFASMa2)

#### Continuing education and training: diploma courses and qualifications:

- University Diploma (DU) Gynaecological follow-up for prevention, sexuality, birth control (1 year)

## FACULTY OF DENTISTRY

The Faculty of Dentistry of Brest trains future **dental professionals**, and contributes to developing research and European and international cooperation. It works in close collaboration with other UBO components and the **University Hospital Center (CHU)**, which is home to the hospital dentistry, oral medicine and oral surgery departments where students receive their clinical training. The faculty helps students in their professional integration, in conjunction with professional bodies such as the département council for dental surgeons (Conseil Départemental de l'Ordre des Chirurgiens-Dentistes).

### 1 research unit

**LBAI** B-Lymphocytes and Auto Immunity

**220 students**  
**+ 11 interns**  
**27 lecturers**



Practical work on a physical simulator

## TRAINING COURSES

### INITIAL TRAINING

#### 1<sup>st</sup> cycle programme

General Training Diploma in Dentistry (DFGSO)

- Specific Health Access Pathway (PASS) Bachelor's Degree (1 year) Health Access (LAS 1) Bachelor's Degree (2/3 year) Health Access (LAS 2/3)
- 2<sup>nd</sup> year: DFGSO2
- 3<sup>rd</sup> year: DFGSO3

#### 2<sup>nd</sup> cycle programme

Diploma of Advanced Training in Dentistry (DFASO)

- 1<sup>st</sup> year: DFASO1
- 2<sup>nd</sup> year: DFASO2

#### 3<sup>rd</sup> short cycle (1 year)

(State Diploma of Doctor in Dental Surgery)

• OR

#### Medical Residency

State Diploma (DE) of Doctor in Dental Surgery + Higher education diploma (DES)

- Higher education diploma (DES) in Oral medicine (3 years)
- Higher education diploma (DES) in Oral surgery (4 years)

### CONTINUING EDUCATION AND TRAINING: DIPLOMA COURSES AND QUALIFICATIONS

- University Diploma (DU) in Implant-supported rehabilitation (3 years)
- University Diploma (DU) in Digital and Aesthetics in Dentistry (1 year)
- Certificate of Specialized Studies in Conservative Dentistry - Endodontics (1 year)

The faculty offers multidisciplinary training (physical and sports activity theory, exercise physiology, sports psychology, history of bodily practices, education sciences, modern language, computer science, etc.) in the form of lectures and tutorials and practical work. Students participate in a large number of immersive internships to discover the different service professions in the fields of training, teaching, care and rehabilitation and training. The aim is to show how scientific and professional education is complementary.

**2 sectors**

- Sports Sciences
- Education Sciences

**5 research units**

- CREAD** Research Centre for Education, Learning and Didactics
- CRBC** Center for Celtic and Breton Research
- LABERS** Study and Research in Sociology Laboratory
- LATIM** Medical Information Processing Laboratory
- ORPHY** Optimization of physiological regulations

**1,466 students/19 lecturers/  
26 lecturer-researchers**



Located at the heart of the campus, the faculty's top-quality sports facilities are in an urban setting with lots of green space.



Brainstorming session for students in year 2 of the Education Sciences Bachelor's Degree



Sailing, Kayaking in the bay of Brest.

# TRAINING COURSES

## Sports Sciences

### BACHELOR'S DEGREE

#### Sciences and Technology of Physical and Sporting Activities

- Sports Management
- Sports training
- Education and Motricity
- Personalized Physical Activity and Health

### MASTER'S DEGREES

#### Sciences and Technology of Physical and Sporting Activities (STAPS) Sports Management

- Sports, Sailing, Regions

#### Sciences and Technology of Physical and Sporting Activities (STAPS) Sports Performance Training and Optimization

- Supporting individual and collective performance

#### Sciences and Technology of Physical and Sporting Activities (STAPS) Personalized Physical Activity and Health

- Prevention-Health

## Education Sciences

### GENERALIST BACHELOR'S DEGREES

#### Education Sciences

- School and teaching
- Adult education and training
- Primary education teacher training preparatory course pathway
  - Bilingual French Breton

### MASTER'S DEGREES

#### Education Sciences

- Adult education and training and innovative teaching methods (MFApi)

The Faculty of Law, Economics, Management, and Economic and Social Administration (AES) offers 18 training courses, from bachelor to doctoral level, and welcomes around 2,500 students at both the Brest and Quimper campuses. Its professional training courses and generalist training courses with integrated internships give students a gateway into professional fields such as business, administration, legal professions, and associations. Combined with our wide range of initial and continuing education and training courses, this openness to the outside world is a key factor in the dynamism of our teaching and research activities.

**4 departments**

- ✓ Law
- ✓ Economics-Management
- ✓ Economic and Social Administration (AES)
- ✓ Regions, Territory and Europe

**2 research units**

**AMURE** Development of the uses and resources of marine and coastal areas

**LAB-LEX LAW RESEARCH LABORATORY**

**2,500 students/  
100 lecturer-researchers**



**TRAINING COURSES**

**GENERALIST BACHELOR'S DEGREES**

**Economic and Social Administration\*\***

- Business Administration and Management (AGE)
- General, Territorial, and Regional Administration (AGT)

**Law**

- Generalist pathway\*\*
- Public Law pathway (3-year Bachelor's Degree [L3])
- Private Law pathway (3-year Bachelor's Degree [L3])
- Law-Art market\*
- Applied Foreign Languages (LEA) - International Careers pathway (Brest)

**Economics Management**

- Economics and Management pathway
- International pathway

**PROFESSIONAL BACHELOR'S DEGREES**

**Real estate professions: asset management and administration**

**Notarial Profession**

**MASTER'S DEGREES**

**Public Law**

- Advanced Public Law

**Private Law**

- Fundamental Private Law

**Wealth management and Real Estate and Property Law**

**Vulnerable Persons Law**

**Economic and Social Administration**

- Management of medical and social establishments and personal assistance services
- Health management and training

**Production management, logistics, purchasing**

- Marketing, trade, distribution and purchasing
- Supply chain management and purchasing

**Regional and Territorial Management and Local Development**

- Management and engineering of territorial and regional development in Europe

**Justice, trials and proceedings**

- Judiciary

**Maritime Activities Law**

- Law, Sea, and Littoral and Coastline

**Currency, Banking, Finance, Insurance**

- Wealth advisor and professionals

**INSTITUTE OF JUDICIAL STUDIES (IEJ)**

**DOCTORATE**

**Law/Economics/Management**

**UNIVERSITY DEGREES**

**Criminology**

**Animal Law**

**Tax Law**

**Medico-social pathway coordinator**

\*\* Course taught in Brest and Quimper.

\* Course taught in Quimper.

The UBO University School of Management (IAE) is developing a range of courses in the main management functions. All IAE courses, from the bachelor's to the master's level, focus on student professionalization by offering innovative simulation-based courses: learning in project mode, business games, contributions from management researchers and qualified practitioners, active pedagogy created with the professional community, professionalization schemes (3-6 month internships per year and work-study contracts).

**1 research unit**

**LEGO** Economics and Management Laboratory of Western Brittany

**600 students/  
20 lecturer-researchers**



## TRAINING COURSES

### PROFESSIONAL BACHELOR'S DEGREE

#### Insurance, Banking, Finance: account manager

- Client advisor and manager in the personal banking and insurance market

### MANAGEMENT BACHELOR'S DEGREE (3-YEAR)

- Economics and Management (1-year and 2-year [L1 and L2, respectively] Bachelor's Degree) at the Faculty of Law
- Accounting, Control, Finance
- Marketing
- Human Resources and Sustainable Management

### MASTER'S DEGREE

#### Human Resources Management

#### Management and International Trade

#### Services Marketing

#### Accounting - Control - Auditing

#### Information Systems Management

#### Company Management and Administration

- Dual and Combined Degrees pathway
- Executive Leadership Pathway (continuing education and training only)
- Research in Management Sciences

#### Finance

#### Master's Degree in Management control and organizational audit

### UNIVERSITY DIPLOMA (DU)

#### Entrepreneurship

- Complementary skills in entrepreneurship and management

Since 1985, the IPAG Business School at UBO has been preparing students and trainees for external, internal or 3rd track competitive examinations, and the professions in the three civil services. IPAG has also developed collaborations and partnerships with several institutes or universities in France (IRA Nantes, Institute for International and Strategic Affairs (IRIS), Sciences-Po Aix-en-Provence) and launched an integrated preparatory class for Regional Administrative Institute (IRA) competitive examinations. And is actively developing international partnerships in Mexico (Colegio de Moleros and the National Autonomous University of Mexico - UNAM), Canada, (National School of Public Administration - ENAP, in Quebec), Germany (Kehl), Laos (National Academy for Politics and Public Administration - ANPAP), Thailand (Universities of Chulalongkorn and Thammasat). When students join IPAG they have the opportunity to study and train in one of the partner institutions around the world.

Civil service professions:  
Customs, Defense, Public Finance, Foreign Affairs, Diplomacy, National Education, Police, Gendarmerie, Social Action, NGOs, Culture Heritage, Regional authorities, etc.

**250 students/  
70 lecturer-researchers**



## TRAINING COURSES

### BACHELOR'S DEGREE

**Public Administration**  
(3-year Bachelor's Degree [L3])

### MASTER'S DEGREE

**Public Administration**

- Governance, State and Territory
- Diplomacy and international relations
- Safety, Security

### DOUBLE DEGREE

**Institute for International and Strategic Affairs (IRIS) sup'/master 2 public administration**

### PREPARATION FOR COMPETITIVE EXAMINATIONS

**Preparation for the 3 civil services category A administrative competitive examinations: State, territorial, hospital**

- External, internal and third track.

**Preparation for Regional Institute of Administration (IRA) competitive examinations**

- External and third track.

**Integrated Preparatory Class, IRA Nantes**

### UNIVERSITY DEGREE

**Territorial and Regional administration skills**

By combining academic learning with practical work experience, the training courses of the University Institute of Technology (IUT) Brest-Morlaix provide in-depth scientific training and create graduates that are highly employable.

Our teaching team applies this approach by implementing active project-based pedagogical methods that focus on real-life learning situations. Its students are closely supervised during their internships and the small-sized classes.

These programmes are developed in close collaboration with professionals in the sector, ensuring that they are perfectly in tune with the requirements of the job market. IUT also offers state-of-the-art facilities including workshops, computer rooms, laboratories, and technology parks that are faithful representations of the chosen sector's professional environment.

**6 departments**

- GACO**  
Administrative and Commercial Management of Organizations
- GC-CD**  
Civil engineering - Sustainable Construction
- GEA**  
Business and Administration Management
- GB**  
Biological Engineering
- GEII**  
Electrical Engineering and Industrial Computer Science
- GMP**  
Mechanical and Production Engineering

**2 sites**

- Brest
- Morlaix

**4 fields**

- Industry
- Trade/Management
- Agronomy/Biology
- Civil Engineering

**1,400 students / 100 lecturer-researchers**



Practical work  
Biological engineering



Introduction to  
Topography  
Civil Engineering



GACO  
(administrative and commercial management of organizations)  
group work

# TRAINING COURSES

## UNIVERSITY BACHELOR OF TECHNOLOGY (BUT)

**Mechanical and Production Engineering**

**Electrical Engineering and Industrial Computer Science**

**Biological Engineering**

**Civil Engineering – Sustainable Construction**

**Administrative and Commercial Management of Organizations**

**Business and Administration Management**

## PROFESSIONAL BACHELOR'S DEGREES

**Design in Metal Architecture**

**Port and Naval Maintenance**

**Aerospace industry**

**Design and Manufacturing of Composite Material Structures**

**Industrial Product Design**

**Design and production in industrial metalworking**

**Electricity and Energy Professions**

**Automated Systems, Networks and Industrial Computer Science**

**Building Design Project Manager**

**Management of Agricultural Organizations**

**Trade and Distribution**

**Management and Accounting Professions**

Choosing IUT means choosing innovative and hands-on teaching methods, supported by high-performance equipment and practical work experience, in close collaboration with local and national companies.

It is also an opportunity to follow study-work courses, and gain international experience through our many partnerships with universities worldwide. IUT Quimper graduates go straight into employment or continue on to further studies.

**1,350 students including 400 following work-study programmes/78 lecturers including 33 researchers**

**4 fields**

- Transport logistics
- Management/Trade
- Biology
- Agri/Health



Biochemistry class practicals



## TRAINING COURSES

### UNIVERSITY BACHELORS OF TECHNOLOGY (BUT)

- Biological Engineering
- Business and Administration Management
- Logistics and Transport Management (formerly GLT)
- Marketing Techniques
- Marketing Techniques (work-study programme)

### PROFESSIONAL BACHELOR'S DEGREES

- At Quimper:**
  - Insurance, Banking, Finance: Customer Advisor
  - Healthcare professions, technologies: pathological anatomy and cytology
- At Redon:**
  - Logistics and flow management: industrial logistics
  - Quality, hygiene, safety, health, environment: industrial risk management in the food industry
- At Paris:**
  - Logistics and flow management: industrial logistics
- At Nantes:**
  - Trade and Distribution

The Brittany National Higher Institute for professors and educators (INSPÉ) provides initial training for future teachers and lecturers, non-teaching staff, and trainee psychologists, and is involved in their continuing education and training in close collaboration with the regional education authority.

INSPÉ is a university component integrated into the University of Western Brittany.

In partnership with the four Breton universities and the regional education authority, INSPÉ fulfils its training missions, participates in the development and dissemination of educational research, and develops international cooperation activities.

Located on six training sites (Brest, Lorient, Quimper, Rennes, Saint-Brieuc and Vannes) and built around three centres (East, West and South), INSPÉ, together with its partner universities, is authorized to award the national Master's Degree in teaching, education and training professions (MEEF) Master's Degree in teaching, education and training professions


in the following four specializations:

- primary education;
- secondary education;
- educational assistance;
- training practices and engineering.

Twenty-six courses are linked to these four specializations. The training courses provided are all based on a teaching-internship balance and offer an introduction to research.

#### Partner laboratories

Centre François Viète (CFV) / Center for Celtic and Breton Research (CRBC) / Education, Learning and Didactics Research Centre (CREAD) / Spaces and Societies (ESO) / Geo-architecture / (Territories, urbanization, biodiversity, environment) / Mathematics Institute of Rennes (IRMAR) / Information and Communication Science and Technology Laboratory (LAB-STICC) / Littoral and Coastline, Environment, Remote Sensing, Geomatics (LETG) / Psychology: Cognition, Behaviour, Communication Laboratory (LP3C)

 2,600 students/  
31 lecturer-researchers



## TRAINING COURSES

### MASTER'S DEGREE IN TEACHING, EDUCATION AND TRAINING PROFESSIONS (MEEF)

#### Teaching, Education and Training Professions

##### Specialization: primary education teaching

- Primary education school teacher (Brest, Quimper, Rennes, Saint-Brieuc, Vannes and Lorient)
- Teacher in bilingual schools (Saint-Brieuc)
- Primary education school teacher. Bilingual teaching: Institut Supérieur de Formation Pédagogique Kelenn (Quimper)

##### Specialization: secondary education teaching

- German (Rennes)
- English (Brest, Lorient and Rennes)
- Plastic and Visual arts (Rennes)
- Breton (Brest and Rennes)
- Chinese (Rennes)
- Librarianship and Documentation (Rennes)
- Physical and Sports Education (Brest and Rennes)
- Spanish (Brest and Rennes)
- History-Geography (Brest, Lorient and Rennes)
- Italian (Rennes)
- Modern Literature (Brest and Rennes)
- Classics (Brest)
- Mathematics (Brest and Rennes)
- Music (Rennes)
- Philosophy (Rennes)
- Physics-Chemistry (Brest and Rennes)
- Economic and Social Sciences (Rennes)
- Life and Earth Sciences (Rennes)
- Industrial Engineering Sciences (Lorient)

##### Specialization: educational assistance

- Senior Education Advisor (Rennes)

##### Specialization: training practices and engineering

- Disability, learning difficulties, and severe learning difficulties (Saint-Brieuc)
- Research in didactics (Quimper and Rennes)
- Music Outreach pathway (Rennes)



Atlantic Brittany Higher National School of Agri-Food Engineering (ESIAB) offers 2 engineering courses:

The **Microbiology and Quality Engineer** training course is a 3-year programme that takes place at the Plouzané site.

It is based on microbiology, and on the quality management and health safety of products developed from biological matrices. The majority of engineering graduates go on to work in fields such as:

- Quality
- Hygiene
- Safety and environment
- Regulations, auditing, and training and education

in the agri-food, cosmetics and health sectors.

The **Agri-Food Engineer training course** lasts for 3 years and is accessible to students and apprentices (FISE and FISA statuses, respectively) in partnership with IFRIA OUEST.

It equips students to develop new processes and products, manage production, define and implement a quality, hygiene, health, safety and environmental policy, and can also lead to positions in marketing or related sectors such as biotechnology.

**1 research unit**

**Lubem** Biodiversity and Microbial Ecology University Laboratory

**250 students/  
26 lecturer-researchers**



Students in microbiology class practicals



Test tubes containing culture medium for bacterial growth and identification

# TRAINING COURSES

## ENGINEERING DIPLOMAS

Specialization: Microbiology and Quality

Specialization: Agri-food

## DOCTORATE

Microbiology Food Sciences



Professional training enables people to enhance their skills or acquire new ones throughout their careers, with the aim of developing and securing their career paths. It is designed for employees and jobseekers, young people and adults, through a wide range of schemes.

**Department of University Continuing Education and Training and Work-Study programmes** supports nearly 7,000 trainees every year. Our courses can be distance or classroom-based, last a few days or several months, diploma courses and qualifications, offer individuals a tailored, sustainable response to their changing skills needs, thereby contributing to the region's development.

Recognition of prior learning schemes, particularly the VAE, are supported by all components and used extensively, with UBO being among the first universities to have implemented such initiatives.



L'article L.6316-4 II du code du travail reconnaît la qualité de l'établissement d'enseignement supérieur au titre des 4 catégories d'actions concourant au développement des compétences.

## OUR RANGE OF TRAINING COURSES

### Work-Study programmes:

- Support for students on work-study programmes and employers. Under an apprenticeship contract or a professionalization contract, over 80 training courses are accessible on a work-study basis.

### Resumption of studies, validation of prior learning:

- Advice and support for candidates in their academic careers. All national degrees offered at UBO are accessible through continued education and the Validation of prior learning: DEUST (Scientific and technical university diploma), BUT (University Bachelor's of Technology), Bachelor's Degree, Professional Bachelor's Degree, Master's Degree, Doctorate.

## TRAINING COURSES

### DAEU

- Diploma for Access to University Studies (scientific or humanities) is the equivalent of the Baccalauréat (upper secondary education certificate).

### Diplomas and Certifications in Languages

- Our language courses are designed for both individuals and companies, for people of all ages and levels of education. Several certifications in French as a Foreign Language (FLE) are available for validating French language skills.

### Training for elected officials

- Local financial management, urbanism, law, human resources, management, communication, public policies, inter-municipality...

### Customized training courses for companies

- These courses are needs-adapted, drawing on the expertise and skills of academics and external contributors who are all specialists in the fields concerned.

### Diploma courses and qualifications (University Diploma - DU, and Inter-University Diplomas - DIU), and Certification courses

- These training courses are developed in collaboration with the University's teaching and research staff and/or our local socio-economic partners.

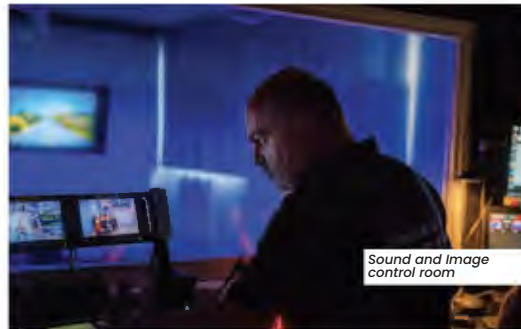
**Find all our training courses and services at**  
[www.univ-brest.fr/fc](http://www.univ-brest.fr/fc)

# 2.4 Innovative tools for



A **Simulation Centre, for learning and teaching health sciences (CESIM)**, is an innovative teaching and research

structure for improving the quality of care. CESIM recreates care situations to enable action learning through patient simulator models, high technology equipment, and specialist practitioners. It is also a research centre in the fields of medical pedagogy and communication, and technological assessment and development. Drawing on its extensive simulation expertise, CESIM is organizer and host for the 12th national congress of SOFRASIMS (Francophone Society for Health Simulation) in June 2024 at the Faculty of Medicine in Brest.



Sound and Image control room



## SIAME

Service d'Ingénierie, d'Appui & de Médiatisation pour l'enseignement



Connected collaborative room

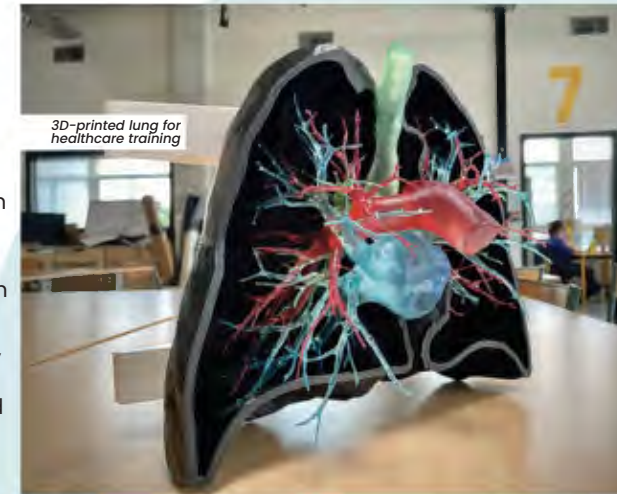
SIAME: Multi-media services in teaching spaces. Supports and facilitates student success, responds to university pedagogical challenges (e.g., skills-based approaches), and improves teaching quality for teaching staff, non-teaching staff, and researchers, individually or in teams. It offers a wide range of hybrid services including the creation of pedagogical resources (teaching videos, digital tools, audio-visual multimedia resources), and the development

of distance education (massive open online courses (MOOCs), small private online courses (SPOCs), screencast, digital pedagogical videos, online courses, MOODLE platform etc.).

# access to knowledge



UBO Open Factory is an original service in the university arena, with its main site in Brest and a satellite site in Quimper. An innovation laboratory inspired by fablab and third places models, it promotes open and responsible innovation through training in **new project development practices** (open-source, low technology, collective intelligence, co-creation, rapid prototyping, etc.) for regional actors, and helps to create products and/or services contributing to **building a more resilient and inclusive region**.



3D-printed lung for healthcare training

Open to the entire university community and external professionals, the UBO Open Factory is a hybrid space that combines a creative area for collaborative events (e.g., creative marathons, workshops, training courses) and a manufacturing workshop with digitally-controlled machines such as 3D printers, laser cutters, digital milling machines, and electronic equipment).



Creative marathon in Quimper

This service offers:

- training courses in innovation project management, collaborative working and **rapid prototyping**,
- developmental support for open-source and/or low-tech products for research and teaching;
- strategic guidance for regional social innovation projects;
- support for project leaders to foster entrepreneurship.

Some examples of projects supported by the UBO Open Factory are the co-creation of technical aids for people with

disabilities, design of 3D-printed simulators for healthcare training, manufacture of low-tech measuring instruments for marine science research, development of educational, scientific and cultural mediation tools.



# MAKING CONNECTIONS

- 3.1 University and Society
- 3.2 Student Life
- 3.3 Culture - Arts

# 3.1 University and Society

The University of Western Brittany is a major actor in the economic development of the region through its numerous partnerships with socio-economic actors. UBO lends its expertise to its partners, forming strong collaborations to respond to the challenges of tomorrow and build for the future.

UBO research is a leading driver of innovation and experimentation, recognised nationally and internationally, and available to companies. Each year, more than **280 partnership contracts** are signed between UBO and socio-economic actors in our various themed areas, such as: Sea, Health, Agri-food, Digital, Humanities and Social Sciences.

There are over 15 UBO-supported start-up businesses created from university laboratories, including Polymar, France Haliotis, and Mappem Geophisics.



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Innovative Starts-up

## Research innovation

## Professional Integration

The transition from student to professional, and from university life to working life, is one of the university's primary missions. Every year, more than **6,000 students complete internships and 950 find work placements over 4,000 partner enterprises**. The UBO Career Centre is an online platform offering information, support for internships, work placements, work-study programmes, jobs for all UK students and alumni.



4,000

Partner enterprises

## UBO Foundation

The University of Western Brittany Foundation was created in a global context of strengthening relations between UBO and its socio-economic partners. In a hands-on approach towards forming links and solving practical issues, we respond collectively to the needs of the region and support its momentum. A space for dialogue and co-construction, this platform is set to become a meeting place for all actors who want to become involved in innovation, entrepreneurship, and driving society forward. **Since its creation in 2016, over 55 projects have been supported by the Foundation for their societal, environmental and regional dimension.** Since 2021, we have also launched a whole series of actions aimed at students including recognition of academic, sporting or artistic excellence, support for entrepreneurial and solidarity initiatives.



55

UBO Foundation Projects

# 3.2 Student Life

## STUDENT SERVICES

The University and its services accompany students throughout their studies at UBO in areas such as orientation, health, sports, and languages.

### CAREER GUIDANCE & PROFESSIONAL INTEGRATION

Service for incoming and current students and graduates. Choice of study pathways, reorientation, gap years. One-to-one appointments or group workshops. Help with finding work placements and jobs, access to the business directory and network, student entrepreneurship. Graduate outcome surveys. **Contact: Cap'Avenir**

### HEALTH SERVICES

Medical appointments: general practitioners, gynaecology, gynaecologists, midwifery services (e.g. pregnancy, maternity, paternity support). Nursing, healthcare, vaccinations, psychologist consultations. Social service, welfare and well-being. Disability advisory services providing support for students with disabilities, and information regarding inclusion, accessibility and additional support for studies and exams. **Contact: University Health Service (Service de santé universitaire)**

### LANGUAGES

Learning foreign languages on a non-credit basis. Conversation classes and exchanges: 4 languages available, open to all students free of charge, run by students who are native speakers. French as a Foreign Language

(FLE) course for international students

**Contact: Pôle Langues language centre**

### TI LIBRARIES

Opening hours: 3 libraries open until 10pm Monday to Friday and 5pm on Saturdays. Group or individual assistance (on site, online, and email) for document research. Digital libraries with 24-hour access to thousands of electronic books and journals.

**Contact: UBODOC**

### SPORTS

Over 50 activities including sailing, scuba diving, climbing, fitness, swimming, racket sports, team sports and dance. Access to quality equipment, facilities, and infrastructure: climbing wall, fitness centre and gym, sports grounds, dojo.

**Contact: SUAPS**

### DISABILITY

Disability advisory services providing support for students with disabilities, and information about inclusion, accessibility and additional support for studies and exams. Various technical aids for different disabilities. Study projects and employment access (companies that are leaders in disability and inclusion). A place to talk, listen, and offers of educational help and assistance.

**Contact: Handicapability (Espace Handiversité)**



Students in an orientation meeting at Cap'Avenir



A student at the University Healthcare Centre



International students from the Pôle Langues language centre



University library, Health Campus (Pôle Santé)



Sailing activities offered by SUAPS



Adapted sports courses

## STUDENT ASSOCIATIONS

Reflecting our students' dynamism and commitment to a community or cause. All disciplines are represented, offering a large range of projects; every year UBO supports various initiatives including the AGORAE community and solidarity grocery shop.

Extracted from the database of UBO-approved associations on 28 August 2023.

All contacts are available at: [www.univ-brest.fr/menu/Vie+du+Campus/Student-associations/](http://www.univ-brest.fr/menu/Vie+du+Campus/Student-associations/)

### Tacle

Promoting local, national and international performing arts-related projects.

### APAssociation

An unmistakable presence in the world of adapted sport in the Brest region. Raising student awareness of different types of disability.

### HUMED Brest

The health students humanitarian association organizes solidarity fund-raising events throughout the year. In 2022, the money raised went towards a humanitarian trip to Nepal with the Manoj NGO.

### Agora Aes Brest

This association represents and informs students on economic and social administration (AES) at the University of Western Brittany (UBO).

### ABEB

The Brest association of biology students organizes conferences, orientation days/evenings, and offers various student services.

### CLIP Audiovisual Students of Brest

The audiovisual student association of Brest activities are: making make audiovisual material available to its members, helping (practically and financially) in student projects, providing audiovisual services at a lower cost for small organizations and associations that do not have the means to hire professional services.

### ACID Quimper

The association for inter-law cooperation was created in 2013. Its aims are to encourage interaction and mutual support among students to improve the quality of personal and work life for Quimper students during their university studies.

### ECO PLUS

The association promotes and vitalizes the eco-management sciences study stream in Brest, and contributes to student cohesion economics and management students.

### Infusion

The objective of this association is to stimulate students' minds, foster openness to the world, and create

connections for Breton students and beyond.

### Coopération Inter Droit

This inter-law cooperation association promotes contact, mutual aid and cooperation among students at the Faculty of Law in Brest, and strives to enhance relationships between students and the faculty, and students and the professional world.

### Association de docteurs et doctorants juristes de Brest

The law doctors and doctoral students in Brest association promotes professional and academic development for doctoral students and alumni at the University of Western Brittany.

### AsEBSI

The association for nursing students of Brest fosters student cohesion, organizes social events such as parties and masked balls, carries out tutoring and well-being actions, and provides students with training updates.

### AEDL

The association for students in the Law-Applied Foreign Languages course at the University of Western Brittany organizes a student trip to Brussels to visit the various European institutions, which takes place in the year 2 Bachelor's Degree.

### AssESciB

The purpose of this association for science students in Brest is to act as a link between its members, UFR students and administrative bodies, provide information and updates about the association and campus life in general, and inform students about reforms regarding studies and university life.

### AEOB

The dentistry students of Brest association distributes the extremely expensive equipment and material that dental surgery students need to complete their university studies.

### Association des étudiants de l'Institut de Géoarchitecture

This association for students at the Geo-architecture Institute liaises with students, graduates and the teaching team, and organizes events

such as field trips, school trips, induction weekends. It also supervises professional workshops run by 1- and 2-year Master Degree students.

### Association des étudiants en Master MEEF de Rennes

This association for students on the MEEF (teaching, education and training professions) Master's Degree courses in Rennes

creates links between the different MEEF streams, organizes conferences, and supplies INSPÉ logo merchandise.

### BDE CAPSIDE

The office for paramedical students brings together students from all study years at the institute through induction events and themed evenings.

### BDAC ESIAB

The aim of the arts and culture office of the Atlantic Brittany Higher National School of Agri-Food Engineering (ESIAB) is to bring art to as wide a public as possible by running art workshops that develop curiosity, adaptability and creativity, which are all essential qualities for the school's future engineers.

Instagram: @bdac\_esiab

### Broussailles

This association brings together students from the Master's Degree in biodiversity management and conservation and facilitates their access to resources (intellectual, material).

### BABORD

This association represents speech-language therapist students in the Faculty of Medicine, with other student associations, with the National federation of speech and language therapy students (FNEO) and its network, and with the Western Brittany federation of student associations (Fédé B).

### BDE ESIAB

The ESIAB (Atlantic Brittany Higher National School of Agri-Food Engineering) Student Office (BDE) acts as a link between students, lecturers, the administrative offices, students from other schools, UBO students and companies. It also promotes student life by organizing sports events, trips

and visits such as EDHEC Business school, discovery weekends, and world exhibitions.

#### **CENB**

The Brest naturalist student association creates a conversation and dynamic around the theme of Nature, aiming for as many people as possible to discover, promote and, above all, protect nature.

#### **CheerU!**

Promotes the gap year.

#### **CESFB**

Brest association representing midwifery students locally and nationally, organizing events and projects.

#### **CEMB**

The Brest association of medical students strengthens ties between its members and helps set up projects. It also provides information on the student association and campus life.

#### **Culture Connexions**

An association vitalizing IUP Patrimoine, the University institute for professional heritage training.

#### **DAKODOC**

Putting doctoral students in touch with each other by greeting new arrivals and organising numerous get-togethers for doctoral students throughout their thesis.

#### **Delta**

Students from different years of the Applied foreign languages course.

#### **ELFAN**

Alumni of the Logistics and flow management (LFP) professional degree, specializing in Food sector logistics (LFA) at the University Institute of Technology (IUT) in Quimper.

#### **EPSYLON**

Students from the UBO Psychology department, with the general aim of defending and promoting their individual and collective interests by offering by offering various services to promote studies and by encouraging a rich, dynamic and varied student life.

#### **ESN Brest**

The Erasmus Student Network of Brest welcomes and supports international students and raises awareness of international mobility. It also creating volunteer and international student guides.

#### **FÉDÉ B**

The Western Brittany federation of student associations contributes to a vibrant and dynamic campus, provides specific services to associations and students, and coordinates various student and youth association activities.

#### **Gaïa**

The association of geo-sciences students in Brest helps builds student cohesion in the Earth and Universe Sciences (STU) programme, promotes the STU degree course, and organizes geological study trips.

#### **Géo-Horizons**

This association helps students, mainly in geography and regional and territorial town and country planning, with their academic and student life.

#### **Handicapable**

Supporting UBO students and staff with disabilities in their social life on campus, and their inclusion at the university and in the workplace.

#### **HÉRACLÈS**

This dynamic association of history students at the Victor Segalen Faculty in Brest promotes cultural history study activities such as lectures, museum visits, and study trips.

#### **INSPIRATION**

Vannes Students enrolled in the MEEF (teaching, education and training professions) Master's Degree

#### **KUBE**

An association for UBO physiotherapy students.

#### **La Lanterne UBO**

Participates in student cultural life at the Faculty of Arts and Humanities, particularly through publishing a student paper.

#### **Les Kaméscopiens**

The association promotes collaborative filmmaking and related exchanges, encourages the practice of documentary and fiction filmmaking, provides education and encourages critical thinking, and develops collective practices around film.

#### **Les Pilidoues**

Supporting the needs of children in hospital, improving their daily lives through various initiatives (particularly the donation of Christmas gifts during the end-of-year holidays).

#### **Les Stapsiates**

An association of UBO students from the Sciences and Technology of Physical and Sporting Activities (STAPS) course at the Faculty of Sports and Education Sciences (FSSE) in Brest. It develops the sciences and technology of physical and sporting activities (STAPS) programme.

#### **Mana'wave**

The Brest University School of Management (IAE) student association.

#### **MerSciDoc**

Association of junior marine science researchers at UBO.

#### **OBI 1**

Representing computer science students at UBO.

#### **Patel**

Students on the European Institute for Marine Studies (IUEM) Master's Degree programme in Marine, Littoral and Coastal Sciences (SML) specializing in Expertise and Management of the Littoral and Coastal Environment (EGEL).

#### **PENN-AN-IPAG**

IPAG Business School association for developing student cohesion, participating and organizing student activities, and enabling professional integration.

#### **Rennes MEEF**

Association for Rennes students on the Master's Degree in teaching, education and training professions (MEEF)

#### **Sea-Ti-Zen**

Association for students at the European Institute for Marine Studies (IUEM) on the Master's Degree programme in Marine, Littoral and Coastal Sciences (SML) programme.

#### **Sen'art**

An association that creates student cohesion and links between dual degree students at UBO Quimper.

#### **Si T'es U**

An association assisting students living in student accommodation. It provides administrative support and organizes sports and cultural activities.

#### **Tutorat Santé Brestois**

An association promoting equal opportunities for all in access to health studies.

#### **Union Pirate Finistérienne**

Association representing and defending student interests in the various university councils (UFR/CROUS/central), and providing one-to-one help, support and advice for students with registration, social aid and welfare applications.

#### **West Up**

LGBTQIA+ student association at UBO. It creates a space for talking, listening and exchange for people of all genders and sexualities.

#### **YESS**

Association for young English speaking students. It develops intra-university links between students across all years of the Master's Degree in foreign languages and civilisations (LLCE) at the Victor Segalen faculty and the Brest campus.

## 3.3 Culture/Arts

- ⚡ Evenings
- ⚡ Exhibitions
- ⚡ Workshops and Internships
- ⚡ Cross-disciplinary Teaching Units
- ⚡ Preferential Rates
- ⚡ Festival of student creativity
- ⚡ Artist residencies
- ⚡ Arts-Sciences



The university's fundamental, cross-disciplinary and federative mission is to develop cultural life for the entire university community, in conjunction with local, national and European partners. The Cultural Service plays a major role in disseminating and transmitting culture at UBO among its students. It offers a rich and diverse programme including improved access to shows, concerts and festivals in the Finistère region, and events on the various UBO sites such as art workshops, performances, concerts, film evenings, parties, and exhibitions open to the whole community. UBO supports elite athletes and artistic performers through different programmes and support.

Every year, the Cultural Service produces a guide that is widely distributed on campus.

**Contact:**  
[www.univ-brest.fr/service-culture](http://www.univ-brest.fr/service-culture)



#### Crédits photos

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