



OCEAN



Training a new generation of academic and socio-economic players to meet the growing challenges of marine and maritime sciences

The Institute for ocean sciences (OCEAN) is a multidisciplinary institute dedicated to research and training in the field of marine sciences. We combine innovative approaches to oceanography with its various components (biology, chemistry, physics), climate and digital sciences, robotics and marine engineering. These fields are enriched within the institute by other disciplines linked to marine and maritime environments, such as economics, law (public/private), history and geography, as well as psychology. The OCEAN institute offers high-level training based on research, with immersion in its laboratories as well as in the partner industries of the Pôle Mer Méditerranée network, the CNRS, the IRD, the IRSN and the IFREMER.

Forming a community

20 research units

10 doctoral schools

5 faculties

more than 400 staff

more than 450 students (master and PhD)



Oceanography and climate

Digital sciences

Marine biotechnology

Marine pollution and radioecology

Marine engineering

Blue economy



Bringing disciplines closer together

Oceanography
Climate sciences
Computer science
Robotics
Marine history
Marine engineering
Blue economy
Law of the sea
Geography
Art
Biodiversity

Shared facilities



Training through and for research

Seasonal schools
Thesis and master's grants
Financial support for the
introduction of new training courses
incorporating research methods

Acting internationally

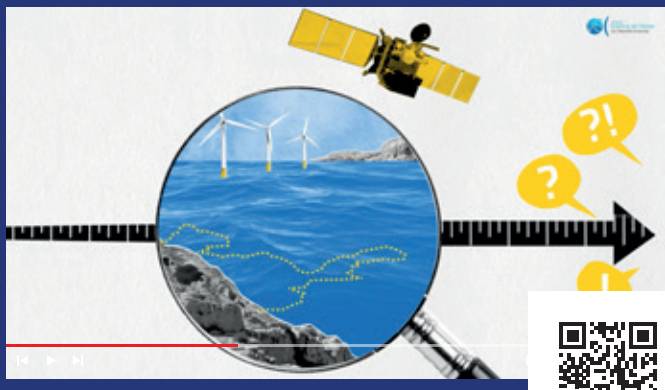
An international seasonal school
Cooperation with leading
oceanography universities
International training courses
Support and joint construction of
applications for European projects



Strengthening partnerships

- CNRS
- University of Toulon
- Centrale Méditerranée School
- French Maritime Academy (ENSM)
- IFREMER
- Marseille maritime port authority
- Network of Marine Universities (RUM)
- European Ocean Research and Education Alliance (EOREA)

Videos



Watch the institute's animated film



The institute presents the careers
of the future in the maritime sector

Our executive office

The entire governance team: <http://url.univ-amu.fr/institut-ocean-gouvernance>



Director:
Richard Sempéré



Deputy research
director:
Virginie Sanial



Deputy training
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Laetitia Licari



Operations manager:
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Deputy director for
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Contact

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Institut Sciences de l'Océan



@OceanAmu



@ocean_amu

Focus on our "IMMERSION" teaching platform project

The IMMERSION platform project, bringing together two interdisciplinary institutes (OCEAN and ARKAIA, Mediterranean archeology) has been selected as part of a call for projects by the Aix-Marseille Initiative for Excellence (AAP TRIPS Amidex). This platform brings together digital telescience and virtual reality tools for ocean research and training. It draws on the infrastructure and expertise of IFREMER and the French Ministry of Culture's Department of Subaquatic and Underwater Archaeological Research (Drassm). The aim of this project is to provide students on OCEAN and ARKAIA courses with digital training tools. The "IMMERSION" platform will be installed on the Arbois technology park site and connected to the IFREMER transmitter system site at La Seyne-sur-Mer.

Training at OCEAN



Training for, through and in research, with continuity from master's to doctorate level



Our training ecosystem

**more than 250
master's students***

5 amU faculties

Pythéas Institute - Observatory
for the sciences of the
Universe (OSU Pythéas)

Faculty of arts, letters,
languages and
humanities (ALLSH)

Faculty of sciences (FS)

Faculty of law and political
science (FDSP)

Faculty of economics and
management (FEG)

+ University of Toulon

+ Centrale Méditerranée School

**1 interdisciplinary
PhD programme**

200 PhD students*

**10 partner doctoral
schools**

Legal and political sciences (ED 67)

Marseille mathematics and
computer sciences (ED 184)

Chemical sciences (ED 250)

Environmental sciences (ED 251)

Physics and science of
matter (ED 352)

Engineering sciences (ED 353)

Spaces, cultures,
societies (ED 355)

Economic and management
sciences (ED 372)

Sea and sciences (ED 548 - Toulon)

Mediterranean societies and
human sciences (ED 509 - Toulon)

15 key master's

Marine sciences

BEE (Biodiversity, ecology and evolution)

Business law

International and European law

GAED (Geography, planning,
environment and development)

Environmental Management

History, civilisations, heritage

Mechanical engineering

Science and technology in
complex systems engineering

STPE (Earth and planetary
sciences, environment)

IMEO (Marine and offshore
wind engineering)

Marine sciences

Public law

Development
economics

Chemistry and
materials sciences

Complex systems
engineering

* These figures include students enrolled in master's specialisations affiliated with the institute and PhD students enrolled in our partner doctoral schools.

Explore our
full range of
training offers:





Our key actions

Annual seasonal schools with theoretical and practical sessions. A thematic approach, for example to marine protected areas or plastics in the marine environment.

Organisation of events to bring together academics, students and partners (e.g. Ocean Day)

Thesis and master's grants

Financial support for new study courses (DESU, UE)

Seasonal school: 30 students per year

Ocean Day :

150 professionals and students

18 speakers and presenters

"The institute enabled me to prepare for a thesis by asking me to produce deliverables throughout my placement (summary, poster, summary slides). I have also been invited to various events that have enabled me to meet other foreign researchers specialising in marine social sciences."

Jim Grisillon
Institute's intern

Our international training initiatives

CIVIS alliance
European civic university
"Blended Intensive Program"

International specialisations

Cooperation with leading oceanography universities
e.g. European Ocean Research and Education Alliance (EOREA)

More than 10 nationalities among our students

International seasonal school
7 nationalities

Contact

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Research at OCEAN



Bringing together the marine and maritime sciences strengths of the Aix-Marseille site to consolidate our international scientific position



Our research ecosystem

20 research units

Humanities

- Centre for economic law (CDE)
- Aix-Marseille centre for management studies and research (CERGAM)
- Comparative and European international law (DICE)
- Laboratory for social psychology (LPS)
- Time, space, language in southern Europe and the Mediterranean (TELEMMe)

Energy

- Institute for research into non-equilibrium phenomena (IRPHE)

Environment

- European research and teaching centre in environmental geosciences (CEREGE)
- Study of structures, adaptation processes and changes in space (ESPACE)
- Mediterranean institute of marine and terrestrial biodiversity and ecology (IMBE)

Laboratory of environmental chemistry (LCE)

Mediterranean institute of oceanography (MIO)

Advanced science and technology

- Marseille centre for particle physics (CPPM)
- Provence institute for microelectronics and nanosciences (IM2NP)
- Mediterranean institute for information and communication science (IMSIC)
- Computer science and systems laboratory (LIS)
- Mechanics and acoustics laboratory (LMA)
- Mechanics, modelling and clean processes laboratory (M2P2)

University of Toulon

- Polymeric materials interfaces in the marine environment (MAPIEM)
- Applied development economics laboratory (LEAD)
- Design of mechanical and robotic systems (COSMER)

more than 400 staff

Aix Marseille Université
Centrale Méditerranée School
CNRS
University of Toulon
IRD
IFREMER
ASNR
ENSM



Our key actions

Joint construction of the European Ocean Research and Education Alliance (EOREA), with the Norwegian University of Science and Technology, comprising 14 European universities

Support and co-construction of applications for European projects

> example: amU-Ifrermer application to host a data/equipment centre for the future European Knowledge and Innovation Community (KIC) in water, marine and maritime sciences

Funding and support for the selection of interdisciplinary research projects

> 2 to 4 research projects per year

Half-doctoral contract offers to encourage external co-funding

Our main areas of research

Current and past dynamics of ocean ecosystems

The origin and impact of climate change in relation to the ocean

Resilience to anthropogenic pressures on the ocean and coastline

The risks and protection of coastal zones on the world ocean

Observation systems and data for ocean sciences

Blue economy

Observation-based governance and marine pollution prevention

Contact

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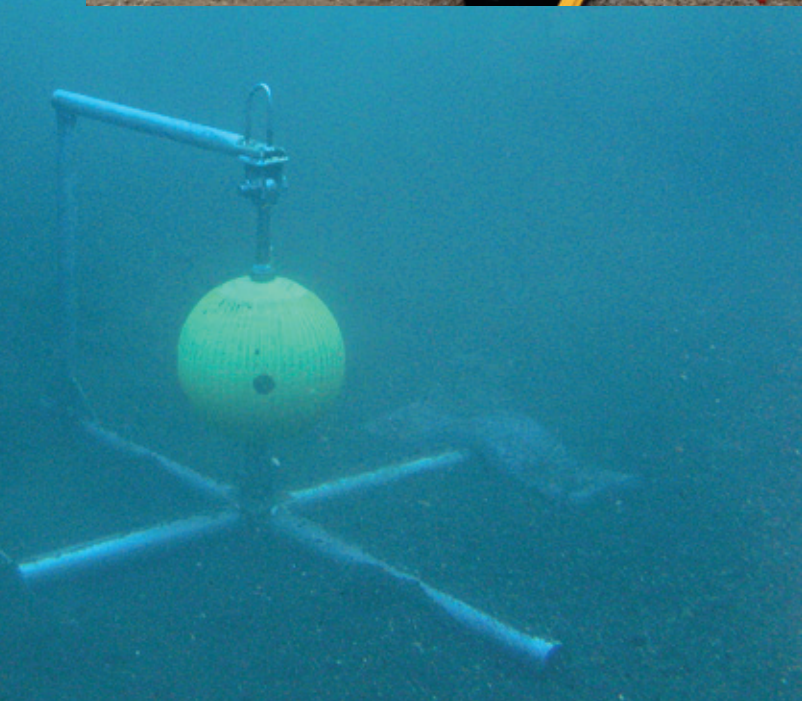
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"Funding from the OCEAN Institute has enabled us to launch the Biodiv'Innov project, an ambitious collaboration between various partners from Aix Marseille Université and OSU Pythéas. This project has led to collaboration between stakeholders to study plankton biodiversity and its evolution as a function of environmental conditions in a context of climate change."

Magali Lescot,
Biodiv'Innov project, awardee
of OCEAN's interdisciplinary
call for projects



OCEAN partnerships



Strengthening and developing special links with academic and institutional players and the socio-economic and cultural world



Our key actions

Events to bring together academics, students and partners (e.g. Ocean Day)

Ocean Day: 150 professionals and students, 18 speakers

Inter-university partnerships (University of Toulon, etc.)

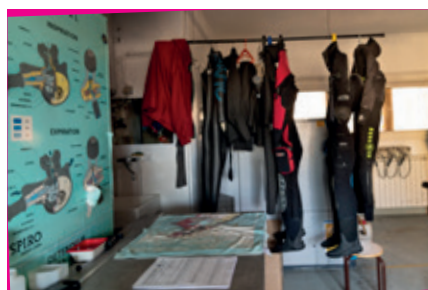
Joint coordination of the European Ocean Research and Education Alliance (EOREA), with the Norwegian University of Science and Technology

14 European universities

Building partnerships with European projects

Partner of UblueTex, a European training project

Partner of Plastic Pirates, a European citizen science project on plastics





Our key partners include

European ocean research and education alliance (EOREA)

Network of marine universities (RUM)

Alliance CIVIS, European civic university

IN2P3 - National institute for nuclear and particle physics Ecology and environment institute

INEE - Ecology and environment institute

INS2I - Institute for information science and interaction

INSIS - Institute of engineering sciences and systems

INSU - National institute for the sciences of the universe

INC - Institute of chemistry

INSHS - Institute of human and social sciences

CNRS

Collège de France

Centrale Méditerranée School

ENSM

IFREMER

IRD (OCEAN and DISCO departments)

ASNR

Economic and institutional partners:

Local authorities: Region, Metropolises, Cities

Marseille maritime port authority

Shipping companies

Energy experts



Contact

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The OCEAN institute
brings together
teams on 8 university
and scientific sites

Puyricard site



Jas de Bouffan site



Saint-Charles site



Main site: Luminy



University of Toulon



Schuman site



Saint-Jérôme site



Château-Gombert site

The Aix Marseille Université institutes are coordinated by the Amidex foundation

amidex Aix
Marseille
Université



Aix Marseille Université institutes: facilitators to strengthen the research-training link, interaction with the economic and cultural world, interdisciplinarity and internationalisation around twenty or so strategic fields of research. Their core unifying role: training a new generation of academics to meet the scientific and societal challenges of our time!

The Aix-Marseille Excellence Initiative, a consortium between Aix Marseille Université and 8 partners

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Inserm



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Hôpitaux
Universitaires
de Marseille ap
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