

AGRO CAMPUS

QUEST



A WORLD-CLASS “GRANDE ECOLE” FOR



AGROCAMPUS OUEST is a higher education and research public Institute of the French Ministry of Food, Agriculture and Fisheries

AGROCAMPUS OUEST achieves a high level of intellectual excellence within a diverse, collaborative community whose members share a passion for teaching and learning, an enduring commitment to discovery through research and creative activity and a strong tradition of engagement and knowledge application.

Founded in 1830, AGROCAMPUS OUEST is a university with honoured traditions. Today, with the diversity of its students, a global outlook, and outstanding world-class research, the university is undergoing compelling changes.

One of AGROCAMPUS OUEST’s strengths lies in a pioneering approach:

- AGROCAMPUS OUEST has been certified ISO 9001 since 2007;
- AGROCAMPUS OUEST fosters interdisciplinary working internally and collaborates widely externally;
- AGROCAMPUS OUEST has integrated the successive Bologna reforms, thereby facilitating student’s mobility;
- AGROCAMPUS OUEST supports equal opportunities in a knowledge-based society.

A threefold vocation

Education
Research
Knowledge valorisation

Through a distinctive tradition of core-discipline excellence, interdisciplinary collaborations and productive partnerships, AGROCAMPUS OUEST

- teaches students to think critically, objectively and creatively and to be lifelong learners, engaged leaders and productive worldwide citizens;
- pursues research to advance knowledge and address regional, national and global challenges;
- serves the society improvements through the generation, broad dissemination and application of knowledge.

Domains

Food & living
environment

- Innovative and sustainable agricultural production systems
- Sea, environment, landscape: integrated management of natural resources and landscape (rural and urban environments)
- Food and food production

LIFE AND ENVIRONMENTAL SCIENCES

learn more
www.agrocampus-ouest.fr



AGROCAMPUS OUEST in figures

- 1880 students (graduate & postgraduate degrees) including 130 PhD students
- 15% international students
 - A network of 13,000 alumni all over the world
- 80 academic partners worldwide
- 150 full-time faculty members including 135 research-lecturers dispersed among:
 - 18 research units featuring more than 500 scientists
 - 11 academic departments
- 250 administrative and support staff
- 500 part-time lecturers (professionals from industry and researchers)
- 3 locations: Angers, Rennes, Beg-Meil

AGROCAMPUS OUEST is organised into:

> 11 academic departments

- Agricultural Economics and Management
- Agriculture, Rural Areas and Environment
- Animal Sciences
- Biological Sciences
- Economics, Statistics, Information Technology and Communication
- Engineering Sciences
- Food Science and Technology
- Foreign languages
- Horticultural Crop Sciences
- Landscaping
- Soil Science

> 3 transdisciplinary centres

- Agriculture, Environment and Landscape
- Fisheries & Aquatic Sciences
- Food

> 18 research units

11 of these units are joint research units grouping together national research organisation, mainly INRA, and universities

- Agricultural Structures and Markets, Resources and Territories
- Agronomy applied to Horticulture
- Animal Genetics
- Biochemistry - Human Nutrition
- Ecology and Ecosystem Health
- Economics and Management
- Genetics and Horticulture
- Landscapes
- Livestock Production Systems, Animal and Human Nutrition
- Milk and Egg Science and Technology
- Milk Production
- Molecular Seed Physiology
- Organism and Population Biology Applied to Plant Protection
- Physical Environment of Horticultural Plants
- Plant Genetics and Biotechnologies
- Plant Pathology
- Rennes Institute for Mathematical Research
- Soils Agro and Hydrosystem Spatialization

Multidisciplinary education from Master's degrees to PhD courses & degrees



The higher education system in France includes universities and other elite institutions called the “Grandes Ecoles”. These are the most prestigious and highly rated trajectory for higher education in Engineering and Management. The majority of chief executives in major French companies and top managers in the French Administration are graduates from the “Grandes Ecoles”.

■ ■ ■ Postgraduate Courses

Two training cycles

* ‘**Ingénieur**’: an advanced master in science & technology. This course has a selective competitive entry procedure. It offers for graduation at master level, a broad choice of scientific disciplines, experimental research, a humanist approach and an introduction to creativity and spirit of business culture.

° ‘**Masters of Science**’: a 2-year post-bachelor program, in partnerships with other ‘Grandes écoles’ and universities as well as research centre expertise.

Animal

Animal Sciences and Productions *
Biology applied to Animal Productions and Health Sciences °

Food & food production

Applied and fundamental microbiology °
Dairy science and technology °
Food chain management °
Food microbiology **°
Food science and management *
Innovation in food science and technology °
Management, innovation, microbiology in the food and dairy industry °

Economics

Agricultural and resource policies and markets *
Applied economics : agriculture, sea, environment °

Environment

Eco-engineering of wetlands, biodiversity and bio-indicators °
Environmental engineering *
Environmental sciences for management °
Functional, behavioural and evolutionary ecology °
Geoinformatics applied to agriculture, landscape and environment *
Hydrogeology, hydrobiogeochemistry, hydroopedology °
Integrated pest management *
International master in rural development (Erasmus mundus) °
Modelling of biological systems °
Remote sensing and environmental spacial analysis °

Halieutics

Fisheries and aquatic sciences **°

Landscape

Landscape *
> Landscape planning
> Project management and engineering
Regional dynamics and landscape °

Plant Sciences

Business Strategies °
Crop production *
> Crop production
> Plant breeding
> Plant production system
Crop protection °
Crop sciences *
> Plant breeding and genetic resources
> Seeds production and seed technology
> Sustainable crop production and agricultural system
Horticulture*
> Fruit & vegetables: food and markets
> Ornamental crops and value-adding
> Sustainable plant management in horticulture and landscaping
Integrative plant biology °
Mediterranean and tropical horticulture °
Plant technology and horticultural productions °

Statistics

Statistics and applications in life sciences and food industry **°

■ ■ ■ PhD

AGROCAMPUS QUEST awards the PhD degree. It has joint accreditation arrangements with five Doctoral schools.

ED 92 – VAS (Life, Agricultural and Health Sciences)
ED 254 – SDLM (Physics and Chemistry)
ED 359 – MATISSE (Mathematics, Telecommunications, Data Processing, Signal, Electronic Systems)
ED 495 – VENAM (Plant, Sea, Environment, Nutrition, Food Sciences)
ED 505 – SHOS (Economics and Social Sciences)



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AGROCAMPUS OUEST offers degrees co... of discover... environmen... the ability a... the improv...

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- Step-by-st... through pr... (up to 18 m...

Express one's talents



Seed the future

■ Research dynamism

Research at AGROCAMPUS OUEST is developing innovative solutions to the world's most daunting challenges: sustainable development, renewable energy, environmental protection, food safety...

In close partnership with national research institutions, especially INRA (French national institute for agricultural research), AGROCAMPUS OUEST conducts an ambitious scientific programme covering all the fields of agricultural sciences from biology to economics to biomathematics and food engineering. This approach involves the interaction between different research disciplines from the molecular level right up to that of the producing system in its environment.

AGROCAMPUS OUEST's research efforts are enhanced through creative collaborations with leading research institutes and consortia around the world.

The synergy between education and research at AGROCAMPUS OUEST is illustrated by the direct involvement of research labs in doctoral training and in the Graduate School deployment project.

Some examples of current collaborative research programmes



Landsoil (Landscape design for soil conservation under land use and climate changes) • This collaborative research programme funded by the ANR-INSU aims to quantify and model the effects of the landscape structure on the redistribution of soil material and the dynamics of related properties – carbon and water storage... – for different agro-ecosystems and under changing conditions of land use and climate.



Ovonutrial • A collaborative research programme funded by the ANR about the impact of technological processes on the nutritional value and allergenicity of egg proteins.

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Academic excellence

AGROCAMPUS OUEST is dedicated to providing students with a combination of rigorous academic study and the excitement of research within a stimulating research intensive learning environment. AGROCAMPUS OUEST strives to develop in its students the confidence and passion to work wisely, creatively, and effectively for the benefit of humankind.

Strengths

AGROCAMPUS OUEST is a multidisciplinary university providing in-depth scientific and practical learning as well as strong project management skills.

The program structure on offer is modular (wide choice of electives); students are encouraged to customise their professional profiles according to the role they want to play in life.

AGROCAMPUS OUEST provides top practical training for industry and the corporate world through project work and internships in companies or public bodies (one month experience) where the students acquire invaluable practical experience and professional skills for their future career.

AGROCAMPUS OUEST graduates find jobs in:

- The agro-food industry, hypermarkets, and catering
- Agricultural production and associated areas
- Agricultural supply
- Environment and planning
- Consultancy for businesses
- IT and new communication technology
- Communications, press and publishing
- International development
- Teaching research and transfer
- The public sector

50% of the students are recruited prior to graduation and 90% are recruited within three months after graduating.



Student life

Studying at AGROCAMPUS OUEST is not just about attending lectures and seminars. It's about learning by doing. The university encourages its students to pilot their own leadership strategies; it provides many opportunities to translate personal experience and interests into valuable knowledge. The options vary on both campuses around twenty student unions organise diverse sporting and cultural activities and events. Students are also involved in initiatives to support diversity, innovation and sustainable development.

Spread
innovation

Knowledge valorisation

The innovation economy is based on lasting, fruitful relationships between teaching, research and innovation. This is known as the Knowledge Triangle Model.

Research contributes towards economic development through the creation of companies and through technology transfer towards existing companies.

AGROCAMPUS OUEST research activities build close ties between companies and laboratories. These links are strengthened by long-term partnerships, technology transfer, lifelong learning, platform sharing and alumni network... Industry players can therefore access results and expertise of laboratories to create new economic activities.



Some examples of current collaborative projects



COGEPECHE • This collaborative project about wild fish is developing an economic model for a sector which has opted to transform itself in order to face the numerous constraints imposed by catch restrictions and competition from imports.



Plantinov'ser • This collaborative project deals with plant innovation and energy efficient agrisystems. It aims to reduce greenhouse energy consumption.

Where
knowledge
education
to create
sustainable
value



More than 80 university partnerships worldwide leading to joint research projects, student and teacher exchanges.

Currently AGROCAMPUS OUEST offers 6 international double degrees :

- Deutschland: Weihenstephan (horticulture, landscape)
- United States: Arkansas, Florida – Atlantis program (rural development)
- Spain: Santiago de Compostela (dairy science and technology)
- China: Harbin (food science and technology)
- 5 European partners: Ghent University (Belgium), Humboldt University of Berlin (Germany), Wageningen University (The Netherlands), the Slovak University of Agriculture in Nitra (Slovakia) and the University of Pisa (Italy)
- International master in rural development
- Netherland: Cah Dronnten University of Applied Sciences (livestock management)

In a global world

■ International commitment

The frontiers of knowledge and technology now stretch around the globe. In this new environment, AGROCAMPUS OUEST continues to reach beyond borders, providing services at the cutting edge of global research and teaching.

At the heart of a strong international network, AGROCAMPUS OUEST

- participates in several exchange programs (ERASMUS, US-EU programs, Erasmus Mundus), training projects (Tempus) and cooperation projects
- maintains close contact with the international scientific community with participates in research teams within the framework programmes for research and development
- is a member of several networks: AUF (the Association of French Speaking Universities), ICA (Association for European Life Science Universities), IROICA (European network of international relations officers at Higher Education Institutions in agricultural and related sciences)...

AGROCAMPUS OUEST students are part of a global community

- Experience abroad (compulsory for French students) : to immerse students in a new culture, challenge themselves to study and learn in a foreign language, work beside research scientists or managers throughout the world...
- 2 foreign languages (compulsory)
- 15% foreign students on the campuses



AGROCAMPUS OUEST is involved in 3 competitiveness clusters (major companies, SMEs, research centres and higher education institutions) in order to develop the economy and create jobs through innovation.

- **Vegepolys** (specialized plants)
- **Valorial** (food for tomorrow)
- **Mer Bretagne** (marine and maritime resources)

Founding member of three networks:



• **Université européenne de Bretagne** • www.ueb.eu
(4000 researchers, 3000 PhD students)



• **Université Nantes Angers Le Mans** • www.lunam.fr
(4200 researchers, 2300 PhD students)



• **Agreenium** • www.agreenium.org
(5650 researchers, 2200 PhD students)





At the heart of Growth Valley,
European's leading agricultural and food-processing region



World's leader in plant production and horticulture
Leading French leader in cattle and milk production
A highly diverse range of natural resources
A land occupancy marked by the domination of agricultural land

Situated between land and sea, with a unique combination of tradition and modernity,
Western France is European's leading area for agriculture and food industry:
AGROCAMPUS OUEST is situated in an ideal region to welcome students and researchers
to approach the future with innovation and enthusiasm.

Contacts

Corporate Headoffice
direction.generale@agrocampus-ouest.fr

International Department
relinter@agrocampus-ouest.fr

Research Department
dirsci@agrocampus-ouest.fr

Corporate Communications Department & Press relations Office
dircom@agrocampus-ouest.fr

Academic & Student Affairs
a.scolarite@agrocampus-ouest.fr (Angers campus)
r.scolarite@agrocampus-ouest.fr (Rennes campus)

Corporate Relations Department
dpp-angers@agrocampus-ouest.fr (Angers campus)
dpp@agrocampus-ouest.fr (Rennes campus)

Postgraduate Office
coordoct@agrocampus-ouest.fr

Executive Education
formco@agrocampus-ouest.fr



AGROCAMPUS OUEST Centre d'Angers - INHP
2 rue André Le Nôtre – F-49045 Angers Cedex 01

AGROCAMPUS OUEST Centre de Rennes
65 rue de Saint-Brieuc – CS84215 – F-35042 Rennes Cedex



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