

ENGINEERING

DEGREE IN

AGRONOMY

SPECIALISATION

QSE MANAGEMENT IN

FOOD VALUE CHAINS



For sustainable management of quality, safety and the environment in agricultural and food value chains



BORDEAUX
SCIENCES
AGRO

General Information on the Specialisation

The QSE Management in Food Value Chains specialisation meets the need that various agricultural and food value chain companies have to anticipate, control and manage risks and meet the multiple requirements of the interested parties (clients, consumers, public authorities, etc.).

Knowledge and mastery of management tools make Food Value Chain QSE Management engineers major players in designing, setting up and running progress-based approaches necessary for performance.



Curriculum

Les principaux enseignements spécifiques au parcours MICA sont les suivants :

- » **QSE Management tools for engineers in food value chains:** from solving problems to auditing management systems
- » **Quality:** from product quality (SIQOs) to organisation efficiency (company quality methods)
- » **Food Hygiene and Safety (FHS):** from good hygiene practices to FHS management systems
- » **Occupational Health and Safety (OHS):** from occupational risk prevention (single document) to improving workplace quality of life
- » **Environment:** from environmental impact assessment (Carbon Audits, Life Cycle Analysis (LCA), etc.) to implementing environmental performance
- » **Integrated Management and Sustainable Development:** from consideration of company contexts and stakes to implementation of sustainable development-related requirements

Les +

- > Crosscutting education that opens doors to all companies and industries in the food chain (farm cooperatives, AFI, mass distribution)
- > An integrated and in-depth approach to companies' issues and an opening to sustainable development through the integration of requirements related to organisations' social responsibility
- > Strong contribution from professionals through class lectures, company visits, professional projects and internships

Educational Programmes

PRE-SPECIALISATION
SEMESTER
(13 weeks)

FOOD QUALITY

- Dietary stakes and food risks
- The health safety, nutritional and sensory quality of food
- Food engineering and production management
- Practicum (4 weeks): evaluating and controlling food quality

PRE-SPECIALISATION INTERNSHIP:
"in-company contribution to setting up or improving quality"

SPECIALISATION
SEMESTER
(22 weeks)

KNOWLEDGE & MASTERY OF VARIOUS QSE MANAGEMENT SYSTEMS

- Quality, food safety (FS), occupational health and safety (OHS) and environmental management systems
- Evaluating and steering management systems
- Practical applications (8 weeks): management system implementation

INTERNSHIP
SEMESTER
(6 months)

SPECIALISATION INTERNSHIP:

"Management systems at the service of company efficiency: applications for QSE and/or SD issues"

Career Prospects

This specialisation prepares students for supervisory, management and advisory positions in companies or entities in the food chain.

» QSE RISK MANAGEMENT:

- product quality manager
- environmental quality engineer
- head of quality, safety and environmental sustainable management

» SUPPORTING COMPANIES AND ASSESSING THEIR PERFORMANCE:

- consultant
- trainer
- auditor

Testimonial



Florence BOUILLET, Graduating Class of 2008
Factory Quality Head, VITAGERMINE Group

" My education in the QSE Management in Food Value Chains specialisation gave me a solid foundation. My various internships and the professional projects were undeniable advantages when I applied for this position. This combination of theoretical knowledge backed and illustrated by practical experience is the real wealth of this course. In my opinion, my education is an excellent match with companies' needs. "

The Advantages of Bordeaux Sciences Agro

A welcoming and dynamic campus...

- 5 student housing halls offering 350 units
- Numerous student associations and clubs
- A wide range of sporting activities
- 17 modern languages offered

A higher education and research facility:

- 12 mixed research units
- 3 research transmission units
- ISO 9001 certification for engineering degrees
- Active sustainable development process

France's leading region in agricultural value added



- World leader in protected designation of origin wines
- France's leading region in quality-certified and/or certified origin production
- Home to the largest planted forest in Europe



Bordeaux: a UNESCO World Heritage Site

- High university and scientific potential
- Lively cultural and associative life
- Strong economic and tourism activities

Bordeaux: an Ideal Geographic Location

- 55 km from the beaches in Lacanau
- 3 hours and 15 minutes from the ski slopes in the Pyrenees
- 2 and a half hours from Spain

Contact

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