Master Sciences et technologie de l'agriculture, de l'alimentation et de l'environnement parcours GLOQUAL

UFR BIOLOGIE
UNIVERSITÉ Clermont Auvergne

L'essentiel

Nature de la formation

Diplôme national

Durée de la formation

- 1 an
- 2 ans

Public

Niveau(x) de recrutement

- Baccalauréat +3

Langues d'enseignement

- Anglais

Modalités

- Présentiel

Lieu(x) de la formation

- Clermont-Ferrand

The objective of this international Master is to train executives able to apply and propose multicriteria assessment methods to improve the global quality of animal production systems, on the European territory.

Mise en avant

The Master "Global Quality in European Livestock Production" training focuses on **animal production systems**, with a particular emphasis on methods for assessing the **global quality** of these systems. It is therefore centered on the different levels related to the components of global quality, from animals to raw materials, **taking into account the territory and society**.

The program is divided into various teaching units concerning:

- **Livestock systems**: The objective is to know the diversity of livestock farming systems and to understand the challenges surrounding livestock farming on a European and global scale. A focus will be placed on animal ethic, human relations and how to better take them into account in breeding systems.
- The different components of the **global quality** of production methods. The courses will make it possible to address different aspects of quality (territorial development, environment, health and safety, economy, product quality...) necessary to adapt livestock production systems.
- **Global assessment methods:** The objective is to provide methodological knowledge of multicriteria evaluation and to put it into practice through various case studies in France and Europe. This method will make it possible to evaluate the global quality of production systems in order to make them evolve.
- **Advocacy techniques:** The aim is to acquire the methods and tools to carry out advocacy action and to know how to manage controversies around livestock farming.

The teaching is carried out by the teachers and teacher-researchers of the various institutions, by international experts and by a large number of stakeholders from the socio-professional world.

Not only is this training innovative in its design with a **combination of approaches** in the **humanities and social and biotechnical sciences**, but also through its teaching methods.The teaching methods are proposed to push forward the acquisition of learners' skills:

- **Lectures and tutorials** to acquire knowledge about the different concepts;
- **Field case studies**
to illustrate theoretical contributions and apply the global evaluation method;
- Participation in **scientific and technical symposia** and **organization of a seminar** with professionals.
- Professional training through **internships**.

Contacts

UFR de Biologie

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Renseignements

Responsable(s) de formation

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Présentation

Enjeux

Livestock farming is currently at the heart of many societal issues. Livestock systems must adapt in order to meet societal demands in terms of environment, health, ethical safety, product quality, territorial development, economy of animal and crop production sectors, and consumption patterns. This training meets the challenges of sustainable livestock farming, anchored in the territories, providing healthy and quality products, and crucial environmental and social services.
The objective of the Master is to train executives able to apply and propose **multicriteria assessment methods** to improve the **global quality of animal production systems**.
To achieve this purpose, students will be trained in the approach of global assessment of animal production systems in Europe.

Spécificités

For the training to be as complete as possible and at the cutting edge of the various areas covered, **several agronomic and veterinary institutions** have joined in a consortium. The intersection of different schools of higher education and professionals from different disciplines allows us to offer a high quality training in terms of research and innovative in terms of pedagogy.

The involvement of professionals in the training is done through interventions with students, project support or internship proposal in their company. This **partnership with companies** is an asset that allows students' professionalization.

Lieux

The training takes place in several sites in France and in Europe:
Master 1
The semestre 1 takes place in Clermont-Ferrand and the 2nd semester takes place in one of the European partner Universities (Padova University, in Italy ou BOKU University, In Austria).
Master 2
The majority of the training of Master 2 takes place in the VetAgro Sup agronomic campus of Clermont-Ferrand. Two weeks will be carried out on the Bordeaux site, one week in the Nancy site, one week in the VetAgro-Sup veterinary campus of Lyon, one week in Europe during a study tour (depending on Covid context).

Établissements

- Bordeaux Sciences Agro (Bordeaux)
- Université de Lorraine/ENSAIA (Nancy)
- INRAE

Admission

Pré-requis

Niveau(x) de recrutement

Baccalauréat +3

Série de bac préconisée

Spécialité Sciences de la vie et de la terre Spécialité Histoire/Géographie

Formation(s) requise(s)

The training is open to students with a Bachelor level for foreign and French students in the field of training (Biology or Geography).
A minimum level of English is required (level B2) to complete the training.

Candidature

Modalités de candidature

Recruitment is done on the basis of an application and a potential interview.
Applications are made to the Université Clermont Auvergne: Application UCA

Modalités de candidature spécifiques

Certains modules sont ouverts en formation continue, nous contacter via contact.mastergloqual@vetagro-sup.fr pour toute demande.

Programme

Les informations ci-dessous sont données à titre indicatif et peuvent faire l'objet de mises à jour.

1st year - Semester 1 (September – January)
Statistical Bases in Biology 3 ECTS
Global Change and Biogeochemical Cycles 3 ECTS
Animal husbandry basics 15 ECTS
Introduction to global quality of livestock and products 3 ECTS
Environnement & Society 3 ECTS
Territorial Organization and livestock chains 3 ECTS
Total S1: 30 ECTS

1st year - S
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Master program year 1 – Master program year 1

2nd year – Semester 3 (September – January)
Livestock Systems Issues 3 ECTS
Ressource Management 3 ECTS
Global Assessment Livestock Systems: case study in France 3 ECTS
Multicriteria Assessment 6 ECTS
Scientific Evaluation of Sanitary Risk 3 ECTS
Participative Process 3 ECTS
Livestock Geopolictics and Economics 3 ECTS
Animal Ethics & Philosophy 3 ECTS
Controversy and Advocacy 3 ECTS
Total S3: 30 ECTS

2nd year –
Global assess case s
Intern

Master program year 2 - Master program year 2

Master Sciences technologies agriculture/alimentation/env.

Master Sciences technologies agriculture/alimentation/env. parc. Global quality in European livestock production a

- Master 1 Plant/Gloqual
  - Semestre 1
    - Bloc A
      - Global change and biogeochemical cycles *3 crédits*
        - Global change and biogeochemical cycles

        - Case studies in Livestock production
    - Animal husbandry basics *12 crédits*
    - Environment and societyEnvironment and society *3 crédits*
  - Bloc B
    - Livestock chains *6 crédits*
    - Livestock and products: quality *3 crédits*
    - Statistical bases for Biology *3 crédits*
- Semestre 2
  - Bloc C
    - Food safety, hygiene and traceability for food quality *6 crédits*
    - Sustainable and organic livestock farming system *6 crédits*
    - Optional unit *9 crédits*
  - Bloc D - stage
    - Research project *9 crédits*

- **Master 2 Plant/GloQual**
  - Semestre 3
    - Bloc A
      - Livestock systems issues *3 crédits*
        - Livestock issues
        - Global Quality issues
      - Livestock geopolitics and economics *3 crédits*
      - Animal ethic & philosophy *3 crédits*
      - Scientific evaluation of sanitary risk *3 crédits*
    - Bloc B
      - Multicriteria assessment *6 crédits*
        - Multicriteria assessment method
        - Data analysis
      - Global assessment livestock systems: case study in France *3 crédits*
    - Bloc C
      - Controversy and advocacy *3 crédits*
      - Participative Process *3 crédits*
      - Ressource Management *3 crédits*
  - Semestre 4
    - Bloc stage
      - Choix stage *30 crédits*
        - Stage 5 mois
        - Master thesis (stage de 6 mois)

Stage(s)

Stage(s)

Oui, obligatoires

Informations complémentaires sur le(s) stage(s)

In France or abroad, in companies or research laboratories, there are two internships:

- a 2-month internship at the end of the Master 1
- a 6-month internship at the end of the Master 2 (Master thesis)

The search for an internship placement is considered a professionalizing process because it allows the student to position his or her professional project in a real socio-economic context.

The active search for internships and the design of communication tools (CV, cover letter) contribute to the preparation of the student for his or her profesionnal insertion. This also allows the student to target internship subjects that are closer to his or her concerns, in agreement with the master's pedagogical team.

Séjour(s) à l'étranger

Informations complémentaires sur le(s) séjour(s) à l'étranger

After a period in Clermont-Ferrand, 2nd semester of the Master 1 takes place in one of the European partner Universities.

Et après ?

Niveau de sortie

Année post-bac de sortie

- Bac +5

Niveau de sortie

- Niveau 7 : Master

Compétences visées

Activités visées / compétences attestées

At the end of this training, you will be able:

- To **understand and analyze** the global quality of an animal production system;
- To **design and implement** a global assessment approach applied to an animal production system;
- To **acquire an ethical and philosophical reflection** on livestock farming;
- To **communicate** and transmit a message, **manage a project** and **carry out advocacy work** while adapting to the context.

Poursuites d'études

Further studies at the university doctorate level (PhD) or in research positions are possible mostly in animal sciences or environment.

Débouchés professionnels

Secteurs d'activité

This professional training course remains very close to the research sector.
The targeted professions are professions at the crossroads between agri-food companies and agricultural structures in strategic positions that promote the improvement of production methods in response to the challenges surrounding livestock farming (global quality director in animal production, quality sector referent, purchasing manager, production manager), but also, professions linked to public policies (international consultant in animal production system quality, advocacy manager, etc.).
Further studies at the university doctorate level (PhD) or in research positions are also possible.
The increasing attention paid to the quality of food and its production methods as well as the various societal issues surrounding livestock farming will probably open up other professional opportunities for graduates.
The Master's degree may lead to work in governmental and non-governmental organizations as well as international organizations and companies where the acquired skills can be used, particularly those related to the global evaluation of the quality of production methods:

- National or international private companies related to animal production,
- National bodies (interprofessional, institutes,...),
- European union
- University, Research Centers