



# Stakes and challenges of livestock farming

## Objectives

The aim of this programme is to provide engineers with **solid livestock training** in order to meet the challenges faced by the animal husbandry industry and to work closely with industry stakeholders. The CAP reforms, access to global markets, constant fluctuations of raw material prices, need for improved effluent treatment, emergence of new pathologies in livestock, consumer animal welfare concerns and the demand for optimum quality products – these are the major **challenges facing the livestock industry today**. Programme graduates will be capable of **proposing new farming methods, anticipating livestock industry trends, successfully implementing engineering tools** and **developing and sharing knowledge** (conferences, experimental protocols, etc.).

## Who is the programme for?

The programme is for students **enthusiastic about livestock** and related industries wishing to further their training in livestock farming and gain a comprehensive insight into the issues and challenges of these industries.

## Career opportunities

- >> **Sectors:** Technical institutes, veterinary bodies, farm cooperatives, agricultural trade bodies, international development organisations, service companies, breeding organisations, feed manufacturers, etc.
- >> **Positions:** Dairy adviser at the Chamber of Agriculture, Feed/reproduction adviser in milk recording, Poultry engineer at the regional ITAVI (French technical institute for poultry production) office, Research leader at IFIP (French pig institute) on livestock management methods and

benchmark systems, Breed selection manager in pig breeding organisations, Layer product manager for ISA (breeding institute), Pig product manager for an animal feed business, Semen distribution and implementation manager in AI centres, Consultant engineer in pig production, Feed compounder, Animal feed product manager, etc.

## Content

- > Population genetics
- > Quantitative genetics
- > Genetic selection
- > Animal biotechnology
- > Reproductive and lactation physiology
- > Nutrition physiology
- > Knowledge of raw materials and additives
- > Industrial approach to animal feeding
- > Fodder systems
- > Animal pathology
- > Ethology
- > Overall approach to farms
- > Benchmark production in the livestock industry
- > Livestock industry news
- > Livestock diagnostics
- > Changes and dynamics of livestock farming systems
- > Management and reuse of livestock effluent
- > Animal welfare
- > Animal health on the farm: from diagnosis to treatment
- > Factors affecting animal product quality
- > Development project
- > Specialization programme project on current industry concerns
- > Days focusing on the future of the agricultural and food industries
- > From career plan to 1<sup>st</sup> job.

## Six-month company placement

**Programme administrator:**  
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