Permanent contract | **Day package** | **R&D Manager (F/M)** | **Blagnac, 31 (France) / Home office** | **4ᵗʰ quater 2025**

Who are we ?

Lallemand Inc. is a privately owned Canadian company, world leader in the development, production and commercialization of yeasts, bacteria and yeast derivatives for different applications such as animal nutrition, baking, winemaking, brewery and distillery, human health and pharmaceutical industries, cheese and meat preservation and plants care.

Lallemand Animal Nutrition is a division of Lallemand Inc. dedicated to the development, production, and marketing of profitable, natural and differentiated solutions for animal nutrition and health.

The Group is operating in over 45 countries from 26 plants and employing more than 4,700 people.

Why joining us ?

Joining Lallemand means joining a company with an international dimension that retains a family spirit. It also means working in a caring environment that respects your individuality and your work/life balance.
Open to all profiles, Lallemand trains its employees in its professions and supports them in their professional development.

The Blagnac site brings together nearly 300 employees of different nationalities. It houses all the business units and activities ranging from R&D to sales administration, including marketing, regulatory affairs, quality services, etc.
In the heart of the Occitanie region, Toulouse / Blagnac is a dynamic metropolis, located in a dynamic economic, cultural and academic area.

If you are tempted by a new challenge combining cooperation and innovation, join Lallemand and its passionate teams!

Lallemand Animal Nutrition is committed to optimizing animal performance and well-being, with products derived from fermentations and specific services. We develop, produce and market silage additives, probiotics, antioxidants and yeast derivatives for animal nutrition, as well as microbial solutions for the animal environment. We serve all animal sectors: ruminant, swine, poultry, aquaculture as well as equine and companion animals. Defining our strategy as "from the field, with science to back it up", our solutions are backed by extensive R&D and technical support from a team of experts in the field. Our solutions are marketed in more than 80 countries through our sales teams or local distributors.

Mission and activities

In order to support the Animal Nutrition (LAN) business unit's development, LALLEMAND SAS is seeking a **Ruminant nutrition modeling specialist**.

Among LAN's solutions, the supplementation of lactating cows with a live yeast improves rumen activity and fermentation, subsequently increasing fiber degradation. The main advantages are related to a more stable rumen pH environment (reduced pH variation along the day), offering more favorable conditions to fibrolytic bacteria and thus NDF degradation due to the reduction of the risks of rumen subacute acidosis. Besides the repeated qualitative response to the supplementation, there is interest in predicting the live yeast response on milk yield by quantifying the extent of its impact on rumen parameters involved in fiber degradation. The accuracy of the prediction will condition the expected feed efficiency and income over feed cost in every specific feeding condition, proving guidelines to the farmers and nutritionists about the best use of this feed additive and its return on investment. This project has become a reality, but we need to improve our efficiency in improving the model, while capitalizing on this expertise to expand to other applications within LAN portfolio.

Member of the R&D team and reporting to the Applied R&D Manager, the **Ruminant nutrition modeling specialist** will have the following principal roles and responsibilities:

- ✓ **Stay updated with the latest advancements in ruminant nutrition and modelling techniques (20%)**
    - ▪ Perform a comprehensive overview of the current fiber model equations within current nutritional models (CNCPS, INRAe,…), including sustainability aspect
    - ▪ Overview of reference lab analyses for nutritional model implementation
    - ▪ To review influencing factors that could affect overall prediction of milk yield

- ✓ **Develop and refine computational models to assess the nutritional needs and performance of ruminants (30%)**
    - ▪ Upgrade of current submodel
    - ▪ Implementation of new *in vitro*/*in situ* studies to enlarge the data base
    - ▪ To model LAN solutions on sustainability parameters (CO_2 eq.)

- ✓ **Provide insights and recommendations based on model outputs to inform feeding strategies and management practices (15%).**
    - ▪ Strengthen the Lallemand Animal Nutrition's expertise internally and externally to endorse the submodel
    - ▪ Support to the global ruminant technical team for the implementation of the live yeast prediction model into customers' formulation systems
    - ▪ Promote and train technical team to the interest of modeling

- ✓ **Be a creative force to identify new opportunities for innovation connected to precision livestock farming (from forage to feed additives) (30%)**

- ✓ **Prepare and present research findings to stakeholders, including scientific communities and industry partners (5%)**

EDUCATION

- PhD in Animal Nutrition, Veterinary Science, Biostatistics, or a related field

EXPERIENCE

- Post doc in animal nutrition modeling
- Publications in peer-reviewed journals related to ruminant nutrition and health modelling
- Experience with machine learning and artificial intelligence applications in animal nutrition is a plus

TECHNICAL SKILLS

- Good understanding in Animal and preferably ruminant Nutrition models (CNCPS , NASEM, INRAE, CVB/VEM)
- Proven experience in computational modelling and data analysis
- Proficiency in statistical software and programming languages (e.g., R, Python).
- Strong understanding of ruminant physiology and nutrition.
- Familiarity with livestock management databases and nutritional surveys
- Excellent analytical and problem-solving skills.
- Ability to work collaboratively in a multidisciplinary team.
- Strong communication skills, both written and verbal.
- Proficient in English (writing and speaking), any other language being a plus

SOFT SKILLS

- Autonomous and prone to team work ;
- Rigorous ;
- Business minded
- Be a force of proposition ;
- Adaptability

SPECIFICITY OF THE POSITION

- Ideally located in Toulouse (France)
- Opportunity for home-office
- Travels: <20% of the time, internationally (Europe)

If you are interested, please send you resume, salary indication and cover letter to :

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