Role Profile

Role Title: **Trait Development Research Scientist-Livestock Disease Networks**

Reports To: **Mark Cigan**

Position Location: **DeForest**

Company Background:
Genus is a global FTSE 250 company, headquartered in the UK and listed on the London Stock Exchange. With revenues of around £500 million, Genus has a presence in over 70 countries, with a global workforce of approximately 3,200 employees. One of the best performing stocks on the London Stock Exchange, the Company's market capitalization is around £2 billion. It is a worldwide leader in porcine and bovine animal genetics, partnering with farmers to transform how we nourish the world – a mission that is important to a sustainable future.
Each generation of animals is selected based on a number of desired traits, including greater health, fertility, productivity or feed efficiency. With superior animal genetics, Genus helps its customers in the dairy, beef and porcine supply chains around the world produce offspring with improved robustness, superior production efficiency and greater sustainability. Genus's vision of ***"pioneering animal genetic improvement to help nourish the world"*** is supported by its core values to be customer-centric, results-driven, pioneering, people-focused and responsible.
Genus is an agricultural biotechnology pioneer. At the core of its accelerated rates of genetic improvement is a proprietary technology platform. Genus focuses its research and development through four routes, all of which may be applied across species, but currently the Company's focus remains on the bovine and porcine species:

- genomic selection (the analysis of the genome and selection of traits important to commercial producers for sustainable production);
- biosystems engineering (delivering genetics through technology solutions, such as our pioneering sexed semen technology);
- gene editing (precise editing of the genome, in which DNA can be deleted); and,

advanced reproductive technologies (embryology and related technology).

Overall Job Purpose:
The purpose of this position is to develop a research program towards identifying pathogen/host gene interactions and networks in response to livestock diseases. This research would be foundational to identifying gene candidates to include in cell and animal screens as part of Genus' disease resistance discovery pipeline. The Trait Development Team is looking for an experienced scientist whom would bring and/or develop novel approaches to identify pathogen/host response pathways and gene candidates for trait improvement in pigs and cows. The Scientist would be expected to collaborate with internal and external experts necessary to support research objectives and be able to work, teach and grow with a Genus team that is collaborative, enthusiastic and engaging.

Specific accountabilities:

- Scientist would develop research plans and lead project consistent with host-pathogen gene and network discovery.
- Scientist would execute and oversee high quality experiments necessary for the livestock health trait discovery pipeline initiative. Modifies experimental approach or plan as required to meet project objectives and timelines.
- Build knowledge that advances our understanding of livestock disease response using data generated internally or acquired externally
- Collaborate with internal R&D teams to test candidate genes for mitigation to livestock disease in cell culture and/or in animals.
- Interprets, summarizes data and develops new experiments based on results and shares results across Research organization.
- Provides solutions to researchers within and across projects by identifying opportunities to improve livestock health traits.
- Remains current on new technology by reviewing literature, participating in professional meetings and career development activities and encouraging others to bring information into research activities.
- Able to train and review of work by other employees.
- Maintains laboratory notebook and records experiments in a timely fashion in accordance with Laboratory Notebook compliance guidelines.
- Controls, maintains, and accountable for research facilities, equipment and other resources.
- Contribute to scientific publications and conferences.
- Implements and monitors safe working practices while adhering and promoting Core Values.

Qualifications and experience:

- Advanced Degree (PhD) in Virology, Immunology, Veterinary Medicine, Molecular Genetics, preferably in pigs and/or bovine. Preferred candidate would have at least 7 years post graduate experience, however other candidates would be considered depending on research experience.
- Knowledge of livestock disease, immunology, gene networks, 'omics technologies, concepts and applications.
- Candidate must have a proven record of success in relevant field (publications and/or other achievements) and demonstrated experimental/wet-lab activities.
- Experience developing and implementing short and long-term research projects and achieve results.

Capabilities and behaviors:

- Demonstrated excellence in communication and strong interpersonal skills.
- Ability to leverage knowledge and influence others to achieve group goals.
- Ability to exercise common sense and able to multitask.
- Understanding of experimental design to ensure development and validation activities are reproducible.
- Maintain professional verbal and written communications with co-workers, internal and external customers, and vendors at all times.
- Be flexible with respect to job responsibilities and consistently strive to be an effective team member.

- Strive to advance skills and display a willingness to accept future development.
- Actively participate in Company training opportunities to further develop skills applicable to the department.
- Lives and displays the Genus Values and behaviors at all times in their day to day ways of working.
- Gain a thorough understanding of the Company's business and the department's role within the company.