

Role Profile

Role Title: Bioinformatics Scientist

Reports To: Bioinformatics Lead

Position Location: Wauankee, WI or Remote

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 Responsibilities:

The Applied Genomics department at Genus seeks a Bioinformatics Scientist to help us change the future of animal breeding, through strategic and actionable uses of genomic data. Join a growing team using next generation sequencing and bioinformatics to improve decision making and accelerate genetic improvement in bovine and porcine genetics. The bioinformatic scientist will primarily be working in a team environment to support existing ongoing projects and maintaining the existing code base. There may also be opportunities to serve as the bioinformatics expert on new research projects working with diverse teams.

Specific accountabilities:

- Thrive in an environment of increasingly large datasets



- Participate in all phases of the genomics data lifecycle from experiment conception, pipeline development and execution, and management of data assets to address current and future questions
- Have a bias towards curiosity and extraction of actionable intelligence from the data
- Enjoy working in a collaborative team environment
- Have a communication style that is effective for both technical and lay audiences
- Run, support, and maintain production pipelines
- Provide support for users to understand the results of the analysis
- Troubleshoot errors in production pipelines

Qualifications and experience:

- MS or PhD in relevant field
- Experience using standard NGS bioinformatics toolsets at the command line (ex BWA, GATK, Freebayes, Samtools)
- Strong coding skills in appropriate languages for bioinformatics (python, R, linux, shell scripting)
- Experience in HPC environments and/or cloud computing is strongly preferred but not required
- Experience in bovine and/or porcine genomics is beneficial but not required

Capabilities and behaviors:

- Reflects Genus R&D's aim of having the strongest talent in the industry
- Lives and displays the Genus ABS Values and behaviors at all times in day to day work.
- Maintains professional verbal and written communications with co-workers, internal and external customers, and vendors at all times.
- Flexible with job responsibilities and consistently strives to be an effective team member.
- Strives to advance skills and displays a willingness to accept future development.
- Actively participates in Company training opportunities to further develop applicable skills.
- Gains a thorough understanding of the Company's business and the department's role within the company.

Equal Employment Opportunity:

Genus is an equal opportunity employer. In accordance with anti-discrimination law, it is the purpose of this policy to effectuate these principles and mandates. Genus prohibits discrimination and harassment of any type and affords equal employment opportunities to employees and applicants without regard to race, color, religion, sex, sexual orientation, gender identity or expression, pregnancy, age, national origin, disability status, genetic information, protected veteran status, or any other characteristic



protected by law. Genus conforms to the spirit as well as to the letter of all applicable laws and regulations.