

## Role Profile

---

**Role Title: Data Software Engineer**

**Reports To: Software Development Manager**

**Position Location: Deforest, WI**

### **Business Overview:**

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.

### **Role Overview:**

Genus has an exciting opportunity for a highly talented, motivated professional to join our team as a Data Software Engineer located in DeForest, Wisconsin. You will be part of a growing team using next generation technology to improve decision making and accelerate genetic improvement in bovine and porcine genetics on the basis of phenotypic and genomic data. You must be a self-starter, resilient, adaptable and willing to take ownership.

### **Essential Duties and Responsibilities:**

#### **You will:**

- Be highly committed to bring Scrum sprint stories to closure as planned, able to address and troubleshoot bottlenecks as they arise and implement a solution.
- Develop and maintain multiple large-scale data pipelines, develop tools, pipeline and applications to support acquisition, access and analysis of data.
- Move projects from development to fully functioning production deployment ready.
- Take ownership of major software component in distributed computing.
- Work under tight timelines to solve critical problems in production.
- Process, clean and verify the integrity of data used for analysis.
- Adhere to architectural guidelines set forth by the team leads.
- Interact with science teams and users to understand requirements and identify improvements to the software.
- Enhance data collection procedures to include information that is relevant for building analytic systems.
- Actively participate in Company training opportunities to further develop applicable skills.

**Requirements:**

- B.S. in Computational Sciences, Computer Science or one of the STEM majors
- 2+ programming skills in Golang
- 2+ programming skills in Python
- 3+ years of experience working in a Linux/Unix and one of the major Cloud platforms: Azure/AWS/GCP
- 2+ years of experience with at least one of the major RDBMS databases : MySql/SqlServer/Oracle, and SQL Queries
- 3+ years of experience with Service Oriented Programming, REST API, and/or gRPC/protobuf
- 3+ years of experience with modern software development techniques, Agile/Scrum methodologies
- 3+ experience with Docker
- 3+ of experience of at least one CI/CD tool such as Jenkins/Azure DevOps/TravisCI
- 1+ year of experience with event and message processing platform such as Apache Kafka
- Experience writing and executing Unit Testing/Integration Testing into CI/CD pipeline
- Experience debugging distributed software in testing and production and critical problem-solving skills of event-driven distributed software components
- Gains a thorough understanding of the Company's business and the department's role within the company.

**Desired Skills:**

- Knowledge of Scientific and/or Genetic Data Processing and Analysis, able to communicate with Bioinformatics and Genomics Team
- Experience of Kubernetes, able to work in sync with DevOps engineers during CI/CD (continuous integration / continuous development) orchestration

- 

**Equal Employment Opportunities:**

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.