Role Profile

Role Title: Systems Engineer

Reports To: Instrumentation Engineering Manager

Position Location: Windsor, 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:
The Systems Engineer will aid in engineering development of biotechnology instrumentation with internal engineering resources and external contractors and vendors. This role includes translating multi-disciplinary needs into detailed design specifications to guide design of the system. The Systems engineer will research and develop scientific instruments using skills in optics, electronics, mechanics, fluidics, algorithms, and other engineering disciplines. The candidate must have strong organizational skills, strong interpersonal skills, and an ability to work well in a team environment.
There will be frequent, multi-disciplinary team collaboration, hands-on prototyping and testing, and data analysis. Join our team to make a global impact on one of the biggest challenges currently facing mankind.

Essential Duties and Responsibilities:
- Lead development and maintenance of product specifications, requirements documents, risk and hazards analysis, design FMEA, usability, and other technical documentation
- Lead system integration, validation and perform system level testing, including development of test plans and coordination of test resources
- Lead engineering change activities including but not limited to work instruction release, revisions, process deviations, and test requirement changes
- Work independently and with cross-functional teams to design new instrumentation solutions and improvements to existing designs
- Work independently and with cross-functional teams to build and test prototypes
- Analyze data and effectively communicate results and conclusions in a multidisciplinary environment
- Continuous improvement and adoption of new engineering methods and techniques

Requirements:
Minimal Qualifications:
- BS in Engineering or a related field
- A minimum of 3 years product or instrumentation development experience in a multi-disciplinary development team
- Strong attention to detail and quality engineering process
- Proficient with standard lab test equipment
- Proficient in standard statistical methods of experimental evaluation and able to process statistical results using software tools (e.g., R, JMP, Origin, SAS)

Preferred Qualifications:
- MS / PhD in engineering
- Good understanding and hands-on experience in laser optics
- Experience in electrical, mechanical, optical, or fluidic design and familiarity with Solidworks, Zemax, COMSOL or other modeling tools
- Experience with signal chain development and testing
- Experience programming for R&D testing (e.g., Python, Matlab)
- Experience with fluidics and microfluidics
- Excellent people and leadership skills
- Flow cytometry or other life science equipment experience

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.