

Role Profile

External Role Title:	Instrumentation Engineer
Reports To:	Instrument Engineering Manager
Position Location:	Windsor, WI
Pay Grade:	
Work Level:	1
Exemption Status:	Exempt

Summary:

At Genus R&D, we empower our colleagues and their customers around the world to fulfill a mission that is genuinely crucial to the future of humankind: to pioneer animal genetic improvement to help sustainably nourish the world. Food consumption is expected to rise by 60% in the next 20 years. Our challenge is to affordably and sustainably meet that escalating demand. We are seeking an Instrumentation Engineer to join the team in pioneering research to transform the global animal protein industry.

Overview:

The Instrumentation Engineer will coordinate development of biotechnology instruments and processes. The engineer will research methods to improve flow cytometry devices using skills in optics, electronics, mechanics, fluidics, algorithms, and other engineering disciplines. The position will have frequent interaction with other engineers, software developers, life science researchers, and process engineers to find solutions for existing and future instrumentation needs. 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.

Key Responsibilities:

- Work independently and with cross-functional teams to design and test new instrumentation solutions and improvements to existing designs
- Build and test prototypes: experience in electrical, mechanical, optical, or fluidic design and familiarity with Solidworks, Zemax, COMSOL or others a plus
- Develop and execute test plans
- Capable of developing tools to quickly collect and process data, such as Python, MATLAB, LabVIEW, C++, etc.
- Proficient in standard statistical methods of experimental evaluation and able to process statistical results using software tools (e.g. R, JMP, Origin, SAS)
- Analyze data and effectively communicate results and conclusions in a multidisciplinary environment

- Execute engineering best practices including requirements extraction, design reviews, verification, and validation
- Continuous improvement and adoption of new engineering methods and techniques

Minimal Qualifications:

- BS in Engineering or a related field, or BS in Life Sciences with extensive experience in flow cytometry instrumentation and instrumentation development
- A minimum of 2 years product development experience
- Excellent people and leadership skills
- Strong attention to detail and quality engineering process
- Experience programming for R&D testing (e.g. Python, Matlab)
- Proficient with standard lab test equipment

Preferred Qualifications:

- MS / PhD in engineering
- Experience on a multi-disciplinary product development team
- Experience in scientific instrumentation, including optical subsystems, mechanical subsystems, fluidic subsystems, building test setups and troubleshooting hardware
- Experience with signal chain development and testing
- Experience with fluidics and microfluidics
- Optics design experience and modeling (Zemax)
- Flow cytometry or other life science equipment experience

Capabilities and behaviors:

- Lives and displays the Genus Values
- Collaborates constructively with peers and team
- Maintains professional verbal and written communications with co-workers, internal and external customers, and vendors
- Flexible with job responsibilities and consistently strives to be an effective team member
- Gains a thorough understanding of the Company's business and the department's role within the company