

# MATTHEW OGBUEHI

## Cell Culture Operations Specialist

### CONTACT

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### EDUCATION



B.A. in Molecular and Cell Biology, 2013

### SKILLS

- cGMP and GDP
- Aseptic Technique
- Fill and Finish
- CIP and SIP
- Inventory Management
- MS Word, Excel and Powerpoint
- Purification Techniques
  - Precipitation
  - Centrifugation
  - Chromatography
- Virus Production
  - Bacteriophage
  - Adenovirus
- Cell Culture
  - Mammalian
  - Bacterial
  - Avian
- Bioreactor Operations
  - Perfusion
  - Wave (25 Liters)
  - Single Use (40 - 1000 L)
  - Stainless Steel (100 - 12000 L)
  - Sampling and Process Analysis
- Data Analysis with Python
- AI Application Development
  - GPT-4 and ChatGPT

### SUMMARY

I have 8 years of cell culture experience in the bioengineering and pharmaceutical sectors, working across diverse organizational scales. My expertise includes culturing avian, mammalian, bacterial, and cancer cells, producing a range of products from alternative proteins to biologics, in volumes from 5 mL to 12,000 L reactors. Recently, I've acquired Python skills for data analysis and AI application development, aiming to leverage these in bioprocess optimization and manufacturing.

### EXPERIENCE

#### SENIOR RESEARCH ASSOCIATE, PILOT PLANT OPERATION

GOOD MEAT INC | NOV 2022 - OCT 2023

- Built a Python application for tracking reagent amounts in media for process optimization studies
- Commissioned stainless-steel tanks and bioreactors for site acceptance testing (SAT)
- Developed and maintained SOPs for new analytical equipment and processes in the pilot plant

#### MANUFACTURING ASSOCIATE III , UPSTREAM CELL CULTURE

GRITSTONE BIO | JULY 2020 - SEP 2022

- Improved resiliency of incubators in the event of power outage via process improvement project
- Trained junior colleagues on bioreactor operations and cell culture theory and techniques.
- Manufactured novel COVID-19 vaccines and novel cancer vaccines for Phase 1 and 2 clinical trials

#### FERMENTATION ENGINEER

CALYX INC | JAN 2018 - JUN 2020

- Improved yield of recombinant virus (bacteriophage) 5-fold by optimizing process parameters and improvement of media formulation

#### MANUFACTURING ASSOCIATE, CELL CULTURE

BOEHRINGER INGELHEIM | MAY 2017 - JAN 2018

- Improved GMP compliance of manufacturing floor and audit preparedness through a SIX SIGMA project

### PUBLICATIONS

**Safety and Toxicity of Nanoparticles in Medicine.** M. D. Hussain and M. Ogbuehi. Chapter 3, Toxicology: Past, Present and Future Nova Science Publishers, Inc., 2015.