

## **Shuaib A Balogun**

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### **Summary**

Prospective doctorate student at Georgia Tech with a bachelor's degree in chemical engineering. Also, I possess a strong academic track record and demonstrated leadership and communication skills.

### **Education**

**Georgia Institute of Technology** May 2023

Doctor of Philosophy in Material Science and Engineering

**University of Massachusetts Amherst** May 2018

Bachelor of Science in Chemical Engineering w/ General Honors **GPA: 3.9**

Minors: Mathematics

Honors: Magna Cum Laude, 21<sup>st</sup> Century Leadership Award, Dean's List, American Chemistry Society Scholar

### **Relevant Experience**

**3M, Maplewood MN** May-August 2017

Product Engineer Intern (R&D)

- Worked to support cellulose quality control and process improvement of 3M sponges by developing and evaluating methods for quantifying pigment bleed.
- Performed competitive analysis of 3M sponges to other sponges
- Explored the properties of diamond converted scrub sponges and developed and executed test plan to evaluate their properties
- Summarized results and provided recommendations for sponge improvement by exploring Scotch-Brite and other online reviews

### **Laboratory Experience**

- Performed research on sulfite-driven, oxorhenium-catalyzed deoxydehydration of cyclic glycols for honors thesis
- Calibrating, reading and analyzing gas chromatographs.
- Calculating response factors and recording them on lab software.

### **Academic Projects**

**Senior Design Project** Fall 2017

- Proposed a preliminary design for an ethylene hydration plant based on an extensive literary review
- Constructed a flowsheet in Aspen for accurate mass and energy balances
- Maximized energy efficiency of plant with heat integration

**Senior Lab** Fall 2017 – Spring 2018

- Performed a permeability project to separate oxygen from air through a polysulfone membrane
  - Created MATLAB code to simulate permeability project and to evaluate results in the form of graphs
- Performed polymerization project to polymerize methyl methacrylate using ethyl-benzene as a solvent
  - Determined the dependence of polymerization rate on monomer concentrations and the activation energy for the polymerization reaction
- Performed polymer extrusion project
  - Characterized varying die with polyethylene and cyclonac resins

### **Other Experience**

**Rite Foods Limited, Lagos Nigeria**

**Sales and Logistics Manager (NYSC)** Aug 2018 - Present

- Coordinate sales activities within assigned area and ensure execution of agreed upon sales strategies with the aim of meeting customer needs and ultimately increasing revenue generation for the area.

### **Leadership**

Undergraduate teaching Assistant for Fluid Mechanics & Introduction to Chemical Engineering Fall 2017

Undergraduate teaching Assistant for Separations, Heat and Mass & Thermodynamics Spring 2018

President of African Students Association (E-board) Fall 2016 – Spring 2018

Residential Assistant at John Adams Hall Spring 2016-Spring 2018

### **Skills**

**MATLAB; Aspen; Simulink; Java; C#;HTML5,CSS3 & JavaScript; Microsoft Office**